CAL3QHCR INPUT FILE

Board of Zoning Adjustment
District of Columbia
CASE NO.16586
EXHIBIT NO.27A5

```
'21&L'   60.   175.   0.   0.   5  0.3048   1
6 16 99 6 17 99
99999   99   99999   99
0 1  'U'
'REC 1'      -45.      -45.    6.0
'REC 2'      -45.       45.    6.0
'REC 3'       45.       45.    6.0
'REC 4'       45.      -45.    6.0
'REC 5'     -330.       45.   10.0
2  'C'
1 1 1 1 1 1 1
'JUN 16 1999'   12
1   1
'21& L SB APPR   '   'AG'    -493.   -380.  -493.     -22.   0.   52.
2   2
'21& L SB QUEUE  '   'AG'    -493.     22.  -493.    -380.   0.   32.0   3
3   1
'21& L SB DEP    '   'AG'    -493.   -380.  -493.     680.   0.   52.
4   1
'21& L EB APPR   '   'AG'    -509.      0. -1080.       0.   0.   65.
5   2
'21& L EB QUEUE  '   'AG'   -1080.      0.  -509.       0.   0.   45.0   4
6   1
'21& L EB DEP    '   'AG'    -509.      0.   -22.       0.   0.   65.
7   1
'20& L NB APPR   '   'AG'       0.     22.     0.     680.   0.   52.
8   2
'20& L NB QUEUE  '   'AG'       0.    680.     0.      22.   0.   32.0   3
9   1
'20& L NB DEP    '   'AG'       0.    -22.     0.    -380.   0.   52.
10   1
'20& L EB APPR   '   'AG'     -22.      0.  -477.       0.   0.   65.
11   2
'20& L EB QUEUE  '   'AG'    -477.      0.   -22.       0.   0.   45.0   4
12   1
'20& L EB DEP    '   'AG'      22.      0.   335.       0.   0.   65.
01   1.0
1       28.    8.76
2      85     25    1.0      28   132.70   0  0  0
3       14.    8.76
4       11.    7.10
5      85     60     1.0      11   132.70   0  0  0
6       25.    7.10
7       28.    8.76
8      85     25    1.0      28   132.70   0  0  0
9       14.    8.76
10      25.    7.10
11     85     60     1.0      25   132.70   0  0  0
12      39.    7.10
02   1.0
1       28.    8.76
2      85     25    1.0      28   132.70   0  0  0
3       14.    8.76
4       11.    7.10
5      85     60     1.0      11   132.70   0  0  0
6       25.    7.10
7       28.    8.76
8      85     25    1.0      28   132.70   0  0  0
9       14.    8.76
10      25.    7.10
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11      85      60      1.0      25    132.70     0   0   0
12       39.     7.10
03    1.0
1        28.     8.76
2       85      25      1.0      28    132.70     0   0   0
3        14.     8.76
4        11.     7.10
5       85      60      1.0      11    132.70     0   0   0
6        25.     7.10
7        28.     8.76
8       85      25      1.0      28    132.70     0   0   0
9        14.     8.76
10       25.     7.10
11      85      60      1.0      25    132.70     0   0   0
12       39.     7.10
04    1.0
1        56.     8.76
2       85      25      1.0      56    132.70     0   0   0
3        28.     8.76
4        22.     7.10
5       85      60      1.0      22    132.70     0   0   0
6        50.     7.10
7        56.     8.76
8       85      25      1.0      56    132.70     0   0   0
9        28.     8.76
10       50.     7.10
11      85      60      1.0      50    132.70     0   0   0
12       78.     7.10
05    1.0
1       112.     8.76
2       85      25      1.0     112    132.70     0   0   0
3        56.     8.76
4        44.     7.10
5       85      60      1.0      44    132.70     0   0   0
6       100.     7.10
7       112.     8.76
8       85      25      1.0     112    132.70     0   0   0
9        56.     8.76
10      100.     7.10
11      85      60      1.0     100    132.70     0   0   0
12      156.     7.10
06    1.0
1       112.     8.76
2       85      25      1.0     112    132.70     0   0   0
3        56.     8.76
4        44.     7.10
5       85      60      1.0      44    132.70     0   0   0
6       100.     7.10
7       112.     8.76
8       85      25      1.0     112    132.70     0   0   0
9        56.     8.76
10      100.     7.10
11      85      60      1.0     100    132.70     0   0   0
12      156.     7.10
07    1.0
1       290.    11.26
2       85      25      1.0     290    132.70     0   0   0
3       145.    11.26
4       340.     8.76
5       85      60      1.0     340    132.70     0   0   0
```

```
6       485.    8.76
7       290.   11.26
8       85      25    1.0      290    132.70     0   0   0
9       145.   11.26
10      485.    8.76
11      85      60     1.0     485    132.70     0   0   0
12      630.    8.76
08    1.0
1       580.   13.65
2       85      25    1.0      580    132.70     0   0   0
3       290.   13.65
4       681.   11.26
5       85      60     1.0     681    132.70     0   0   0
6       971.   11.26
7       580.   13.65
8       85      25    1.0      580    132.70     0   0   0
9       290.   13.65
10      971.   11.26
11      85      60     1.0     971    132.70     0   0   0
12     1261.   11.26
09    1.0
1       680.   13.65
2       85      25    1.0      680    132.70     0   0   0
3       340.   13.65
4       750.   11.26
5       85      60     1.0     750    132.70     0   0   0
6      1090.   11.26
7       680.   13.65
8       85      25    1.0      680    132.70     0   0   0
9       340.   13.65
10     1090.   11.26
11      85      60     1.0    1090    132.70     0   0   0
12     1430.   11.26
10    1.0
1       688.   11.26
2       85      25    1.0      688    132.70     0   0   0
3       344.   11.26
4       479.    8.76
5       85      60     1.0     479    132.70     0   0   0
6       823.    8.76
7       688.   11.26
8       85      25    1.0      688    132.70     0   0   0
9       344.   11.26
10      823.    8.76
11      85      60     1.0     823    132.70     0   0   0
12     1164.    8.76
11    1.0
1       440.   11.26
2       85      25    1.0      440    132.70     0   0   0
3       220.   11.26
4       495.    8.76
5       85      60     1.0     495    132.70     0   0   0
6       715.    8.76
7       440.   11.26
8       85      25    1.0      440    132.70     0   0   0
9       220.   11.26
10      715.    8.76
11      85      60     1.0     715    132.70     0   0   0
12      935.    8.76
12    1.0
```

```
1       378.    11.26
2       85      25      1.0     378     132.70      0   0   0
3       189.    11.26
4       589.     8.76
5       85      60      1.0     589     132.70      0   0   0
6       935.     8.76
7       378.    11.26
8       85      25      1.0     378     132.70      0   0   0
9       189.    11.26
10      715.     8.76
11      85      60      1.0     715     132.70      0   0   0
12      935.     8.76
13    1.0
1       552.    11.26
2       85      25      1.0     552     132.70      0   0   0
3       276.    11.26
4       595.     8.76
5       85      60      1.0     595     132.70      0   0   0
6       871.     8.76
7       552.    11.26
8       85      25      1.0     552     132.70      0   0   0
9       276.    11.26
10      871.     8.76
11      85      60      1.0     871     132.70      0   0   0
12     1147.     8.76
14    1.0
1       442.    11.26
2       85      25      1.0     442     132.70      0   0   0
3       221.    11.26
4       605.     8.76
5       85      60      1.0     605     132.70      0   0   0
6       871.     8.76
7       552.    11.26
8       85      25      1.0     552     132.70      0   0   0
9       221.    11.26
10      871.     8.76
11      85      60      1.0     871     132.70      0   0   0
12     1047.     8.76
15    1.0
1       332.    11.26
2       85      25      1.0     332     132.70      0   0   0
3       166.    11.26
4       615.     8.76
5       85      60      1.0     615     132.70      0   0   0
6       781.     8.76
7       332.    11.26
8       85      25      1.0     332     132.70      0   0   0
9       166.    11.26
10      781.     8.76
11      85      60      1.0     781     132.70      0   0   0
12      947.     8.76
16    1.0
1       350.    13.65
2       85      25      1.0     350     132.70      0   0   0
3       175.    13.65
4       785.    11.26
5       85      60      1.0     785     132.70      0   0   0
6       960.    11.26
7       350.    13.65
8       85      25      1.0     350     132.70      0   0   0
```

```
9       175.    13.65
10      960.    11.26
11      85      60      1.0     960     132.70      0   0   0
12     1135.    11.26
17    1.0
1       388.    13.65
2       85      25      1.0     388     132.70      0   0   0
3       194.    13.65
4       991.    11.26
5       85      60      1.0     991     132.70      0   0   0
6      1185.    11.26
7       388.    13.65
8       85      25      1.0     388     132.70      0   0   0
9       169.    13.65
10     1185.    11.65
11      85      60      1.0    1185     132.70      0   0   0
12     1379.    11.65
18    1.0
1       338.    11.26
2       85      25      1.0     338     132.70      0   0   0
3       169.    11.26
4       147.     8.76
5       85      60      1.0     147     132.70      0   0   0
6       316.     8.76
7       338.    11.26
8       85      25      1.0     338     132.70      0   0   0
9       147.    11.26
10      316.     8.76
11      85      60      1.0     316     132.70      0   0   0
12      463.     8.76
19    1.0
1       226.     8.76
2       85      25      1.0     226     132.70      0   0   0
3       113.     8.76
4        99.     8.76
5       85      60      1.0      99     132.70      0   0   0
6       212.     8.76
7       226.     8.76
8       85      25      1.0     226     132.70      0   0   0
9       113.     8.76
10      212.     8.76
11      85      60      1.0     212     132.70      0   0   0
12      325.     8.76
20    1.0
1       226.     8.76
2       85      25      1.0     226     132.70      0   0   0
3       113.     8.76
4        99.     8.76
5       85      60      1.0      99     132.70      0   0   0
6       212.     8.76
7       226.     8.76
8       85      25      1.0     226     132.70      0   0   0
9       113.     8.76
10      212.     8.76
11      85      60      1.0     212     132.70      0   0   0
12      325.     8.76
21    1.0
1       112.     8.76
2       85      25      1.0     112     132.70      0   0   0
3        56.     8.76
```

```
4        44.     7.10
5       85      60      1.0      44    132.70     0   0   0
6       100.    7.10
7       112.    8.76
8       85      25      1.0      112   132.70     0   0   0
9        56.    8.76
10      100.    7.10
11      85      60      1.0      100   132.70     0   0   0
12      156.    7.10
22    1.0
1       112.    8.76
2       85      25      1.0      112   132.70     0   0   0
3        56.    8.76
4        44.    7.10
5       85      60      1.0       44   132.70     0   0   0
6       100.    7.10
7       112.    8.76
8       85      25      1.0      112   132.70     0   0   0
9        56.    8.76
10      100.    7.10
11      85      60      1.0      100   132.70     0   0   0
12      156.    7.10
23    1.0
1        56.    8.76
2       85      25      1.0       56   132.70     0   0   0
3        28.    8.76
4        22.    7.10
5       85      60      1.0       22   132.70     0   0   0
6        50.    7.10
7        56.    8.76
8       85      25      1.0       56   132.70     0   0   0
9        28.    8.76
10       50.    7.10
11      85      60      1.0       50   132.70     0   0   0
12       78.    7.10
24    1.0
1        28.    8.76
2       85      25      1.0       28   132.70     0   0   0
3        14.    8.76
4        11.    7.10
5       85      60      1.0       11   132.70     0   0   0
6        25.    7.10
7        28.    8.76
8       85      25      1.0       28   132.70     0   0   0
9        14.    8.76
10       25.    7.10
11      85      60      1.0       25   132.70     0   0   0
12       39.    7.10
```

JUNE.MET FILE

99999 99	99999 99					
99061601	220.0	0.6	340.0	4	500.0	500.0
99061602	250.0	0.4	340.0	4	500.0	500.0
99061603	200.0	0.9	340.0	4	500.0	500.0
99061604	190.0	1.0	340.0	4	500.0	500.0
99061605	190.0	1.1	340.0	4	500.0	500.0
99061606	190.0	1.1	340.0	4	500.0	500.0
99061607	180.0	1.1	344.0	4	500.0	500.0
99061608	200.0	1.1	347.0	4	500.0	500.0
99061609	210.0	0.9	350.0	4	500.0	500.0
99061610	220.0	1.6	354.0	4	500.0	500.0
99061611	225.0	2.0	356.0	4	500.0	500.0
99061612	235.0	2.2	358.0	4	500.0	500.0
99061613	260.0	2.0	360.0	4	500.0	500.0
99061614	270.0	1.8	362.0	4	500.0	500.0
99061615	270.0	1.6	364.5	4	500.0	500.0
99061616	225.0	2.0	362.0	4	500.0	500.0
99061617	180.0	2.2	354.0	4	500.0	500.0
99061618	180.0	2.7	350.0	4	500.0	500.0
99061619	200.0	0.7	344.0	4	500.0	500.0
99061620	135.0	0.7	343.0	4	500.0	500.0
99061621	290.0	0.4	342.0	4	500.0	500.0
99061622	245.0	0.0	341.0	4	500.0	500.0
99061623	200.0	1.0	340.0	4	500.0	500.0
99061624	200.0	0.9	340.0	4	500.0	500.0
99061701	220.0	0.6	340.0	4	500.0	500.0
99061702	250.0	0.4	340.0	4	500.0	500.0
99061703	200.0	0.9	340.0	4	500.0	500.0
99061704	190.0	1.0	340.0	4	500.0	500.0
99061705	190.0	1.1	340.0	4	500.0	500.0
99061706	190.0	1.1	340.0	4	500.0	500.0
99061707	180.0	1.1	344.0	4	500.0	500.0
99061708	200.0	1.1	347.0	4	500.0	500.0
99061709	210.0	0.9	350.0	4	500.0	500.0
99061710	220.0	1.6	354.0	4	500.0	500.0
99061711	225.0	2.0	356.0	4	500.0	500.0
99061712	235.0	2.2	358.0	4	500.0	500.0
99061713	260.0	2.0	360.0	4	500.0	500.0
99061714	270.0	1.8	362.0	4	500.0	500.0
99061715	270.0	1.6	364.5	4	500.0	500.0
99061716	225.0	2.0	362.0	4	500.0	500.0
99061717	180.0	2.2	354.0	4	500.0	500.0
99061718	180.0	2.7	350.0	4	500.0	500.0
99061719	200.0	0.7	344.0	4	500.0	500.0
99061720	135.0	0.7	343.0	4	500.0	500.0
99061721	290.0	0.4	342.0	4	500.0	500.0
99061722	245.0	0.0	341.0	4	500.0	500.0
99061723	200.0	1.0	340.0	4	500.0	500.0
99061724	200.0	0.6	340.0	4	500.0	500.0

CAL3QHCR OUTPUT FILE

==========
General Information
==========

Run start date: 6/16/99   Julian: 167
      end date: 6/17/99   Julian: 168

A Tier 2 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are included in the averages below.

Site & Meteorological Constants

VS =   .0 CM/S   VD =   .0 CM/S   Z0 = 175. CM   ATIM = 60.

Met. Sfc. Sta. Id & Yr - 99999   99
Upper Air Sta. Id & Yr - 99999   99

Urban mixing heights were processed.

In 1999, Julian day 1 is a Friday.

The patterns from the input file
have been assigned as follows:

Pattern # 1 is assigned to Monday.
Pattern # 1 is assigned to Tuesday.
Pattern # 1 is assigned to Wednesday.
Pattern # 1 is assigned to Thursday.
Pattern # 1 is assigned to Friday.
Pattern # 1 is assigned to Saturday.
Pattern # 1 is assigned to Sunday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. 21& L SB APPR	-493.0	-380.0	-493.0	-22.0	358.	360.	AG	.0	52.0	
2. 21& L SB QUEUE	-493.0	22.0	-493.0	-380.0	402.	180.	AG	.0	32.0	3
3. 21& L SB DEP	-493.0	-380.0	-493.0	680.0	1060.	360.	AG	.0	52.0	
4. 21& L EB APPR	-509.0	.0	-1080.0	.0	571.	270.	AG	.0	65.0	
5. 21& L EB QUEUE	-1080.0	.0	-509.0	.0	571.	90.	AG	.0	45.0	4
6. 21& L EB DEP	-509.0	.0	-22.0	.0	487.	90.	AG	.0	65.0	
7. 20& L NB APPR	.0	22.0	.0	680.0	658.	360.	AG	.0	52.0	
8. 20& L NB QUEUE	.0	680.0	.0	22.0	658.	180.	AG	.0	32.0	3
9. 20& L NB DEP	.0	-22.0	.0	-380.0	358.	180.	AG	.0	52.0	
10. 20& L EB APPR	-22.0	.0	-477.0	.0	455.	270.	AG	.0	65.0	
11. 20& L EB QUEUE	-477.0	.0	-22.0	.0	455.	90.	AG	.0	45.0	4
12. 20& L EB DEP	22.0	.0	335.0	.0	313.	90.	AG	.0	65.0	

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	-45.0	-45.0	6.0
2. REC 2	-45.0	45.0	6.0
3. REC 3	45.0	45.0	6.0
4. REC 4	45.0	-45.0	6.0
5. REC 5	-330.0	45.0	10.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED

	(PPM)				
	REC1	REC2	REC3	REC4	REC5
MAX+BKG	1.6	1.2	1.1	1.3	1.2
- BKG	1.0	1.0	1.0	1.0	1.0
MAX	.6	.2	.1	.3	.2
WIND DIR	20	20	0	0	90
JULIAN	167	167	167	168	167
HOUR	8	8	7	17	14

THE HIGHEST CONCENTRATION OF 1.60 PPM OCCURRED AT RECEPTOR REC1 .

==========
Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
INCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	1.19*	(168,14)	C 1	1.19*	(167,14)	C 1
2	1.16	(167,15)	C 1	1.16	(168,15)	C 1
3	1.05	(167,20)	C 2	1.05	(168,20)	C 2
4	1.17	(167,14)	C 1	1.17	(168,14)	C 1
5	1.07	(167,20)	C 2	1.07	(168,20)	C 2

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
INCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	1.60*	(167, 8)	C 0	1.60*	(168, 8)	C 0	1.50	(167,17)	C 0	1.50	(168,17)	C 0	1.30	(167, 7)	C 0
2	1.20	(167, 8)	C 0	1.20	(167,10)	C 0	1.20	(167,14)	C 0	1.20	(167,15)	C 0	1.20	(168, 8)	C 0
3	1.10	(167, 7)	C 0	1.10	(167,14)	C 0	1.10	(167,15)	C 0	1.10	(167,17)	C 0	1.10	(168, 7)	C 0
4	1.30	(167, 8)	C 0	1.30	(167,17)	C 0	1.30	(168, 8)	C 0	1.30	(168,17)	C 0	1.20	(167, 7)	C 0
5	1.20	(167,14)	C 0	1.20	(167,15)	C 0	1.20	(168,14)	C 0	1.20	(168,15)	C 0	1.00	(167, 4)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	2	(167, 9)(168, 9)
3	1	(167, 3)
4	3	(167,22)(168, 3)(168,22)

Program terminated normally

MONITORING STATION DATA

L STREET, NW
MONITORING STATION READING
JUNE 16, 1999

HOUR	VALUE
0	1.5
1	1.4
2	1.3
3	1.3
4	1.2
5	1.1
6	1.1
7	1.2
8	1.2
9	1.3
10	1.3
11	1.3
12	1.4
13	1.4
14	1.3
15	1.3
16	1.2
17	1.2
18	1.2
19	1.2
20	1.2
21	1.2
22	1.3
23	1.3

Data

Monitor Address Report

November 21, 1999 3 Rows See

District Of Columbia Air Quality Monitors for Carbon Monoxide (All Years)

1	03	DC	Washington	Washington, Dc	West End Library 24 & L Sts. Nw	NAMS	Commercial	Urban / Center City	1994 - 1996	110010017 - 1
2	03	DC	Washington	Washington, Dc	C&P Phone Co. L St. Bet 20th & 21st St N	NAMS	Commercial	Urban / Center City	1994 - 1999	110010023 - 1
3	03	DC	Washington		34th. And Dix Streets, N.E.	SLAMS	Residential	Urban / Center City	1994 - 1999	110010041 - 1

Export this report to a text file

Create comma-delimited or tab-delimited values, compatible with PC spreadsheets and databases.

Comma Tab

Disclaimer: AIRS*Data* reports are produced from a monthly extract of EPA's air pollution database, AIRS. Data for this report were extracted on October 29, 1999. They represent the best information available to EPA from state agencies on that date. However, some values may be absent due to incomplete reporting, and some values subsequently may be changed due to quality assurance activities. The AIRS database is updated daily by state and local organizations who own and submit the data. Please contact the pertinent to report errors.

Readers are cautioned not to infer a qualitative ranking order of geographic areas based on AIRS*Data* reports. Air pollution levels measured in the vicinity of a particular monitoring site may not be representative of the prevailing air quality of a county or urban area. Pollutants emitted from a particular source may have little impact on the immediate geographic area, and the amount of pollutants emitted does not indicate whether the source is complying with applicable regulations.

AIRS Air Quality Subsystem
Annual Summary Data

Hourly Raw Data

: 110010023421011

	: 11	DISTRICT OF COLUMBIA	Year	: 1998	
	: 001	WASHINGTON	Interval	: 1	
	: 0023		Monitor type	: 1	NAMS
	: 42101	CARBON MONOXIDE	Units	: 007	PPM
POC	: 1		Exc Data Flag	: 0	
Method	:				
Exceed Std Pri	:		Exceed Std Sec	:	
Flaged Vals	:		Observation Count	: 8718	
Percent Obs	: 100		Exceed Alrtlev	: 0	
Valid days	:		Method Count	: 1	
DP Ind	: 1				
	: 6.7		Time	: 03/29/1998, 20 Hr	
	: 6.7		Time	: 03/29/1998, 23 Hr	
Max 3 Value	: 6.2				
Max 4 Value	: 6.1				
Max 5 Value	: 6				

Percentile	10	30	50	70	90	95	99
Value	.3	.8	1	1.3	1.9	2.3	3.2

Minimun	: .3	DP Mean	: 2	Arithmetic Mean	: 1.1	
Geometric Mean	: .93	Arithmetic Std. Dev.	: .64	Geometric Std. Dev.	: 1.85	
Criteria Flag	: 1	Miss Vals Assum	:	Est. Days Gr Std	:	
Non Overlap Ave.	:	Num Sub Half Min	: 924	Req. Monitor Time	:	
Min Sampling Freq	:	YR WTD Arith. Mean	:	Criteria Flag Epa	:	
Est. Days Gr Std EPA	:					

Produced on November 21, 1999 05:04 PM

AIRS Air Quality Subsystem
Annual Summary Data

Hourly Raw Data

: 110010023421011

	: 11	DISTRICT OF COLUMBIA	Year	: 1997	
	: 001	WASHINGTON	Interval	: 1	
	: 0023		Monitor type	: 1	NAMS
	: 42101	CARBON MONOXIDE	Units	: 007	PPM
POC	: 1		Exc Data Flag	: 0	
Method	:				
Exceed Std Pri	:		Exceed Std Sec	:	
Flaged Vals	:		Observation Count	: 8677	
Percent Obs	: 99		Exceed Alrtlev	: 0	
Valid days	:		Method Count	: 1	
DP Ind	: 1				
	: 9.6		Time	: 01/03/1997, 19 Hr	
	: 6.8		Time	: 01/04/1997, 1 Hr	
Max 3 Value	: 6.6				
Max 4 Value	: 6.4				
Max 5 Value	: 6.2				

Percentile	10	30	50	70	90	95	99
Value	.3	.7	.9	1.3	1.9	2.2	3.6

Minimun	: .3	DP Mean	: 2	Arithmetic Mean	: 1.05
Geometric Mean	: .85	Arithmetic Std. Dev.	: .7	Geometric Std. Dev.	: 1.95
Criteria Flag	: 1	Miss Vals Assum	:	Est. Days Gr Std	:
Non Overlap Ave.	:	Num Sub Half Min	: 1256	Req. Monitor Time	:
Min Sampling Freq	:	YR WTD Arith. Mean	:	Criteria Flag Epa	:
Est. Days Gr Std EPA	:				

Produced on November 21, 1999 05:07 PM

AIRS Air Quality Subsystem
Annual Summary Data

Hourly Raw Data

: 110010023421011

	: 11	DISTRICT OF COLUMBIA	Year	: 1996	
	: 001	WASHINGTON	Interval	: 1	
	: 0023		Monitor type	: 1	NAMS
	: 42101	CARBON MONOXIDE	Units	: 007	PPM
POC	: 1		Exc Data Flag	: 0	
Method	:				
Exceed Std Pri	:		Exceed Std Sec	:	
Flaged Vals	:		Observation Count	: 8586	
Percent Obs	: 98		Exceed Alrtlev	: 0	
Valid days	:		Method Count	: 1	
DP Ind	: 1				
	: 7.8		Time	: 04/12/1996, 21 Hr	
	: 7.5		Time	: 04/11/1996, 19 Hr	
Max 3 Value	: 7.4				
Max 4 Value	: 6.3				
Max 5 Value	: 5.7				

Percentile	10	30	50	70	90	95	99
Value	.6	.9	1.2	1.6	2.4	2.9	4

Minimun	: .3	DP Mean	: 2	Arithmetic Mean	: 1.4
Geometric Mean	: 1.2	Arithmetic Std. Dev.	: .78	Geometric Std. Dev.	: 1.79
Criteria Flag	: 1	Miss Vals Assum	:	Est. Days Gr Std	:
Non Overlap Ave.	:	Num Sub Half Min	: 388	Req. Monitor Time	:
Min Sampling Freq	:	YR WTD Arith. Mean	:	Criteria Flag Epa	:
Est. Days Gr Std EPA	:				

Produced on November 21, 1999 05:09 PM

AIRS Air Quality Subsystem
Annual Summary Data

Hourly Raw Data

: 110010023421011

	: 11	DISTRICT OF COLUMBIA	Year	: 1999	
	: 001	WASHINGTON	Interval	: 1	
	: 0023		Monitor type	: 1	NAMS
	: 42101	CARBON MONOXIDE	Units	: 007	PPM
POC	: 1		Exc Data Flag	: 0	
Method	:				
Exceed Std Pri	:		Exceed Std Sec	:	
Flaged Vals	:		Observation Count	: 3596	
Percent Obs	: 41		Exceed Alrtlev	: 0	
Valid days	:		Method Count	: 1	
DP Ind	: 1				
	: 5.7		Time	: 01/28/1999, 9 Hr	
	: 4.8		Time	: 01/13/1999, 18 Hr	
Max 3 Value	: 4.6				
Max 4 Value	: 4.6				
Max 5 Value	: 4.5				

Percentile	10	30	50	70	90	95	99
Value	.6	.8	1	1.2	1.8	2.4	3.2

Minimun	: .3	DP Mean	: 2	Arithmetic Mean	: 1.12	
Geometric Mean	: .99	Arithmetic Std. Dev.	: .6	Geometric Std. Dev.	: 1.67	
Criteria Flag	: 0	Miss Vals Assum	:	Est. Days Gr Std	:	
Non Overlap Ave.	:	Num Sub Half Min	: 158	Req. Monitor Time	:	
Min Sampling Freq	:	YR WTD Arith. Mean	:	Criteria Flag Epa	:	
Est. Days Gr Std EPA	:					

Produced on November 21, 1999 05:06 PM

Data

Hourly Raw Data Report

71 Matches

And Ordered by Columns monitor_id,collection_date

Click a Column Heading for Description

110010023421011	01/06/1997	1	1	0	051	007	.4	1
110010023421011	01/06/1997	2	1	0	051	007	.4	1
110010023421011	01/06/1997	3	1	0	051	007	.3	1
110010023421011	01/06/1997	4	1	0	051	007	.3	1
110010023421011	01/06/1997	5	1	0	051	007	.4	1
110010023421011	01/06/1997	6	1	0	051	007	.9	1
110010023421011	01/06/1997	7	1	0	051	007	1.1	1
110010023421011	01/06/1997	8	1	0	051	007	1.1	1
110010023421011	01/06/1997	9	1	0	051	007	1	1
110010023421011	01/06/1997	10	1	0	051	007	.8	1
110010023421011	01/06/1997	12	1	0	051	007	1.1	1
110010023421011	01/06/1997	13	1	0	051	007	.8	1
110010023421011	01/06/1997	14	1	0	051	007	1.3	1
110010023421011	01/06/1997	15	1	0	051	007	1.1	1
110010023421011	01/06/1997	16	1	0	051	007	1.5	1
110010023421011	01/06/1997	17	1	0	051	007	2.4	1
110010023421011	01/06/1997	18	1	0	051	007	2.2	1
110010023421011	01/06/1997	19	1	0	051	007	1.6	1
110010023421011	01/06/1997	20	1	0	051	007	1	1
110010023421011	01/06/1997	21	1	0	051	007	.8	1
110010023421011	01/06/1997	22	1	0	051	007	.8	1
110010023421011	01/06/1997	23	1	0	051	007	.6	1
110010023421011	01/07/1997	0	1	0	051	007	.5	1
110010023421011	01/07/1997	1	1	0	051	007	.4	1
110010023421011	01/07/1997	2	1	0	051	007	.4	1

From row #25 to row #50

Next 25

Create ASCII file of this query.

Data

Hourly Raw Data Report

71 Matches

And Ordered by Columns monitor_id,collection_date

Click a Column Heading for Description

110010023421011	03/30/1998	1	1	0	051	007	4.9	1
110010023421011	03/30/1998	2	1	0	051	007	4	1
110010023421011	03/30/1998	3	1	0	051	007	3.6	1
110010023421011	03/30/1998	4	1	0	051	007	3.4	1
110010023421011	03/30/1998	5	1	0	051	007	3.2	1
110010023421011	03/30/1998	6	1	0	051	007	3.5	1
110010023421011	03/30/1998	7	1	0	051	007	3.7	1
110010023421011	03/30/1998	8	1	0	051	007	3.8	1
110010023421011	03/30/1998	9	1	0	051	007	3.7	1
110010023421011	03/30/1998	10	1	0	051	007	3.4	1
110010023421011	03/30/1998	12	1	0	051	007	1.3	1
110010023421011	03/30/1998	13	1	0	051	007	1	1
110010023421011	03/30/1998	14	1	0	051	007	.8	1
110010023421011	03/30/1998	15	1	0	051	007	.8	1
110010023421011	03/30/1998	16	1	0	051	007	1	1
110010023421011	03/30/1998	17	1	0	051	007	1	1
110010023421011	03/30/1998	18	1	0	051	007	1.1	1
110010023421011	03/30/1998	19	1	0	051	007	1	1
110010023421011	03/30/1998	20	1	0	051	007	.9	1
110010023421011	03/30/1998	21	1	0	051	007	.8	1
110010023421011	03/30/1998	22	1	0	051	007	.8	1
110010023421011	03/30/1998	23	1	0	051	007	.6	1
110010023421011	03/31/1998	0	1	0	051	007	.6	1
110010023421011	03/31/1998	1	1	0	051	007	.6	1
110010023421011	03/31/1998	2	1	0	051	007	.5	1

From row #25 to row #50

Next 25

Create ASCII file of this query.

Appendix F
Meteorologic Data Analysis

Meteorologic Data Analysis

The Environmental Health Agency (EHA) in it's letter of October 18,1999 requested that a specific set of wind speeds and directions be used for modeling. A MET file was developed and a trail run was made at 23rd and Washington Circle for the proposed evening conditions. The CAL3QHCR
run results were null values. Conversation with EPA's model proponent indicated that there was a cutoff in the model due to the algorithms use in the model.

The input file was then change to reflect the minimum value of 1 meter per sec with constant wind direction. This run EHA.MET resulted in null values in directions where the wind was not blowing toward the receptor.

APEX Environmental had just completed a study for the University Parking Garage, their MET file was obtain and used in a second trial (APEX.MET).

For comparison purposes the original emulated meteorologic data (EMUL.MET) was run.

Based upon the above runs, it was decided to use the APEX.MET file since it contained substantial number of calm periods and periods of constant wind direction, as well as 366 days of data.

Based upon a meeting with Mr. Bernard Bloom of EHA on November 23, 1999 it was agreed that a factor should be developed to account for periods of calm. The runs were made using the EHA wind directions with varying speeds. These values were plotted and a value determine for the 1 mile per hour event, based upon the concentrations being inversely proportional to the wind speed. The chart and runs are include in this Appendix.

EHA. MET

```
99999 99 99999 99
99010101    90.0       1.0  296.1 4 1000.0 1000.0
99010102    90.0       1.0  295.1 4 1000.0 1000.0
99010103    90.0       1.0  294.1 4 1000.0 1000.0
99010104    90.0       1.0  293.1 4 1000.0 1000.0
99010105    90.0       1.0  293.1 4 1000.0 1000.0
99010106    90.0       1.0  293.1 4 1000.0 1000.0
99010107   110.0       1.0  294.1 4 1000.0 1000.0
99010108    70.0       1.0  295.1 4 1000.0 1000.0
99010109    90.0       1.0  296.1 4 1000.0 1000.0
99010110    90.0       1.0  297.1 4 1000.0 1000.0
99010111    90.0       1.0  298.1 4 1000.0 1000.0
99010112    90.0       1.0  299.1 4 1000.0 1000.0
99010113    90.0       1.0  300.1 4 1000.0 1000.0
99010114    90.0       1.0  301.1 4 1000.0 1000.0
99010115   110.0       1.0  302.1 4 1000.0 1000.0
99010116    70.0       1.0  303.1 4 1000.0 1000.0
99010117    90.0       1.0  302.1 4 1000.0 1000.0
99010118    90.0       1.0  300.1 4 1000.0 1000.0
99010119    90.0       1.0  299.1 4 1000.0 1000.0
99010120    90.0       1.0  298.1 4 1000.0 1000.0
99010121    90.0       1.0  298.1 4 1000.0 1000.0
99010122    90.0       1.0  298.1 4 1000.0 1000.0
99010123    70.0       1.0  298.1 4 1000.0 1000.0
99010124   110.0       1.0  297.1 4 1000.0 1000.0
99010201    90.0       1.0  296.1 4 1000.0 1000.0
99010202    90.0       1.0  295.1 4 1000.0 1000.0
99010203    90.0       1.0  294.1 4 1000.0 1000.0
99010204    90.0       1.0  293.1 4 1000.0 1000.0
99010205    90.0       1.0  293.1 4 1000.0 1000.0
99010206    90.0       1.0  293.1 4 1000.0 1000.0
99010207   110.0       1.0  294.1 4 1000.0 1000.0
99010208    70.0       1.0  295.1 4 1000.0 1000.0
99010209    90.0       1.0  296.1 4 1000.0 1000.0
99010210    90.0       1.0  297.1 4 1000.0 1000.0
99010211    90.0       1.0  298.1 4 1000.0 1000.0
99010212    90.0       1.0  299.1 4 1000.0 1000.0
99010213    90.0       1.0  300.1 4 1000.0 1000.0
99010214    90.0       1.0  301.1 4 1000.0 1000.0
99010215   110.0       1.0  302.1 4 1000.0 1000.0
99010216    70.0       1.0  303.1 4 1000.0 1000.0
99010217    90.0       1.0  302.1 4 1000.0 1000.0
99010218    90.0       1.0  300.1 4 1000.0 1000.0
99010219    90.0       1.0  299.1 4 1000.0 1000.0
99010220    90.0       1.0  298.1 4 1000.0 1000.0
99010221    90.0       1.0  297.1 4 1000.0 1000.0
99010222    90.0       1.0  296.1 4 1000.0 1000.0
99010223    70.0       1.0  295.1 4 1000.0 1000.0
99010224   110.0       1.0  294.1 4 1000.0 1000.0
```

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 1/ 2/ 1 Julian: 2

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 99
Upper Air Sta. Id & Yr = 99999 99

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

	LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1.	23&WC NB APPR	*	13.0	280.0	13.0	450.0	*	170.	360.	AG	11.0	45.0	
2.	23&WC NB QUEUE	*	13.0	425.0	13.0	305.0	*	120.	180.	AG	11.0	26.0	2
3.	23&WC SB DEP	*	-13.0	450.0	-13.0	280.0	*	170.	180.	AG	11.0	45.0	
4.	23&WC EB APPR	*	-120.0	505.0	-13.0	450.0	*	120.	117.	AG	11.0	45.0	
5.	23&WC EB QUEUE	*	-30.0	450.0	-120.0	505.0	*	105.	301.	AG	11.0	26.0	3
6.	23&WC EB DEP	*	13.0	450.0	220.0	565.0	*	237.	61.	AG	11.0	45.0	

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	50.0	-45.0	6.0
2. REC 2	50.0	45.0	6.0
3. REC 3	-50.0	-45.0	6.0
4. REC 4	-50.0	45.0	6.0
5. REC 5	-50.0	255.0	11.0
6. REC 6	50.0	255.0	11.0
7. REC 7	50.0	305.0	11.0
8. REC 8	-50.0	305.0	11.0
9. REC 9	50.0	415.0	17.0
10. REC 10	-50.0	415.0	17.0
11. REC 11	-70.0	425.0	17.0
12. REC 12	-200.0	501.0	17.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.0	.0	.0	.0	.0	.6	1.7	.0	2.8	.0
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.0	.0	.0	.0	.0	.6	1.7	.0	2.8	.0
WIND DIR	0	0	0	0	0	290	290	0	290	0
JULIAN	0	0	0	0	0	1	1	0	1	0
HOUR	0	0	0	0	0	7	7	0	7	0

JOB: GWUH PROP PM 23&WC

RUN: GWHU PROP EVENING

	*	REC11	REC12
MAX+BKG	*	.0	.0
- BKG	*	.0	.0
MAX	*	.0	.0
WIND DIR	*	0	0
JULIAN	*	0	0
HOUR	*	0	0

THE HIGHEST CONCENTRATION OF 2.80 PPM OCCURRED AT RECEPTOR REC9 .

JOB: GWUH PROP PM 23&WC

RUN: GWHU PROP EVENING

==========
Output Section
==========

NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.23	(2, 7)	C 0	.15	(1, 8)	C 0
7	1.40	(2, 7)	C 0	1.30	(1, 8)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	2.65*	(2, 7)	C 0	2.64*	(1, 8)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.60	(1, 7)	C 0	.60	(1,15)	C 0	.60	(1,24)	C 0	.60	(2, 7)	C 0	.60	(2,15)	C 0
7	1.70	(1, 7)	C 0	1.70	(1,15)	C 0	1.70	(1,24)	C 0	1.70	(2, 7)	C 0	1.70	(2,15)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	2.80*	(1, 7)	C 0	2.80*	(1,15)	C 0	2.80	(1,24)	C 0	2.80	(2, 7)	C 0	2.80	(2,15)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences

No calm wind hours were encountered during this processing period.

Program terminated normally

EMUL.MET

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99999 99 99999 99
99010101   180.0       1.0  285.5 4 1000.0 1000.0
99010102   190.0       1.0  285.5 4 1000.0 1000.0
99010103   200.0       1.0  285.5 4 1000.0 1000.0
99010104   210.0       1.0  285.5 4 1000.0 1000.0
99010105   220.0       1.0  285.5 4 1000.0 1000.0
99010106   230.0       1.0  285.5 4 1000.0 1000.0
99010107   240.0       1.0  285.5 4 1000.0 1000.0
99010108   250.0       1.0  285.5 4 1000.0 1000.0
99010109   260.0       1.0  285.5 4 1000.0 1000.0
99010110   270.0       1.0  285.5 4 1000.0 1000.0
99010111   280.0       1.0  285.5 4 1000.0 1000.0
99010112   290.0       1.0  285.5 4 1000.0 1000.0
99010113   300.0       1.0  285.5 4 1000.0 1000.0
99010114   310.0       1.0  285.5 4 1000.0 1000.0
99010115   320.0       1.0  285.5 4 1000.0 1000.0
99010116   330.0       1.0  285.5 4 1000.0 1000.0
99010117   340.0       1.0  285.5 4 1000.0 1000.0
99010118   350.0       1.0  285.5 4 1000.0 1000.0
99010119   360.0       1.0  285.5 4 1000.0 1000.0
99010120    10.0       1.0  285.5 4 1000.0 1000.0
99010121    20.0       1.0  285.5 4 1000.0 1000.0
99010122    30.0       1.0  285.5 4 1000.0 1000.0
99010123    40.0       1.0  285.5 4 1000.0 1000.0
99010124    50.0       1.0  285.5 4 1000.0 1000.0
99010201    60.0       1.0  285.5 4 1000.0 1000.0
99010202    70.0       1.0  285.5 4 1000.0 1000.0
99010203    80.0       1.0  285.5 4 1000.0 1000.0
99010204    90.0       1.0  285.5 4 1000.0 1000.0
99010205   100.0       1.0  285.5 4 1000.0 1000.0
99010206   110.0       1.0  285.5 4 1000.0 1000.0
99010207   120.0       1.0  285.5 4 1000.0 1000.0
99010208   130.0       1.0  285.5 4 1000.0 1000.0
99010209   140.0       1.0  285.5 4 1000.0 1000.0
99010210   150.0       1.0  285.5 4 1000.0 1000.0
99010211   160.0       1.0  285.5 4 1000.0 1000.0
99010212   170.0       1.0  285.5 4 1000.0 1000.0
99010213   180.0       1.0  285.5 4 1000.0 1000.0
99010214   190.0       1.0  285.5 4 1000.0 1000.0
99010215   200.0       1.0  285.5 4 1000.0 1000.0
99010216   210.0       1.0  285.5 4 1000.0 1000.0
99010217   220.0       1.0  285.5 4 1000.0 1000.0
99010218   230.0       1.0  285.5 4 1000.0 1000.0
99010219   240.0       1.0  285.5 4 1000.0 1000.0
99010220   250.0       1.0  285.5 4 1000.0 1000.0
99010221   260.0       1.0  285.5 4 1000.0 1000.0
99010222   270.0       1.0  285.5 4 1000.0 1000.0
99010223   280.0       1.0  285.5 4 1000.0 1000.0
99010224   290.0       1.0  285.5 4 1000.0 1000.0
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DATE : 11/18/99
PAGE: 1
TIME : 8:47: 0

JOB: GWUH PROP PM 23&WC RUN: GWHU PROP EVENING

General Information

Run start date: 1/ 1/99 Julian: 1
end date: 1/ 2/99 Julian: 2

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 99
Upper Air Sta. Id & Yr = 99999 99

Urban mixing heights were processed.

In 1999, Julian day 1 is a Friday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. 23&WC NB APPR	13.0	280.0	13.0	450.0	170.	360.	AG	11.0	45.0	
2. 23&WC NB QUEUE	13.0	425.0	13.0	305.0	120.	180.	AG	11.0	26.0	2
3. 23&WC SB DEP	-13.0	450.0	-13.0	280.0	170.	180.	AG	11.0	45.0	
4. 23&WC EB APPR	-120.0	505.0	-13.0	450.0	120.	117.	AG	11.0	45.0	
5. 23&WC EB QUEUE	-30.0	450.0	-120.0	505.0	105.	301.	AG	11.0	26.0	3
6. 23&WC EB DEP	13.0	450.0	220.0	565.0	237.	61.	AG	11.0	45.0	

JOB: GWUH PROP PM 23&WC RUN: GWHU PROP EVENING

Receptor Data

	RECEPTOR	COORDINATES (FT) X	Y	Z
1.	REC 1	50.0	-45.0	6.0
2.	REC 2	50.0	45.0	6.0
3.	REC 3	-50.0	-45.0	6.0
4.	REC 4	-50.0	45.0	6.0
5.	REC 5	-50.0	255.0	11.0
6.	REC 6	50.0	255.0	11.0
7.	REC 7	50.0	305.0	11.0
8.	REC 8	-50.0	305.0	11.0
9.	REC 9	50.0	415.0	17.0
10.	REC 10	-50.0	415.0	17.0
11.	REC 11	-70.0	425.0	17.0
12.	REC 12	-200.0	501.0	17.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.7	1.2	.7	1.0	2.9	3.0	4.1	3.4	2.9	2.5
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.7	1.2	.7	1.0	2.9	3.0	4.1	3.4	2.9	2.5
WIND DIR	0	350	10	0	20	340	330	40	220	120
JULIAN	1	2	1	1	1	2	2	1	1	1
HOUR	1	12	2	1	3	11	10	5	23	13

	REC11	REC12

MAX+BKG	*	2.2	2.0
- BKG	*	.0	.0
---------	*	----------	
MAX	*	2.2	2.0
WIND DIR	*	70	100
JULIAN	*	1	1
HOUR	*	8	11

THE HIGHEST CONCENTRATION OF 4.10 PPM OCCURRED AT RECEPTOR REC7 .

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.29	(2,15)	C 0	.15	(1, 8)	C 0
2	.46	(2,15)	C 0	.19	(2,20)	C 0
3	.26	(2,16)	C 0	.23	(1, 8)	C 0
4	.45	(2,16)	C 0	.39	(1, 8)	C 0
5	1.83	(2,19)	C 0	1.79	(1, 8)	C 0
6	1.84	(2,14)	C 0	1.01	(2,10)	C 0
7	2.72	(2,12)	C 0	1.60	(2,17)	C 0
8	2.52	(1, 9)	C 0	2.52*	(2,21)	C 0
9	2.76*	(2, 6)	C 0	2.16	(2,10)	C 0
10	2.30	(1,15)	C 0	2.09	(2,24)	C 0
11	2.05	(1,14)	C 0	2.00	(2,24)	C 0
12	1.18	(1,15)	C 0	.84	(2,24)	C 0

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth High Conc	Fifth High Ending Day Hr	Fifth High Calm
1	.70	(1, 1)	C 0	.70	(2,12)	C 0	.70	(2,13)	C 0	.40	(1, 2)	C 0	.40	(2,11)	C 0
2	1.20	(2,12)	C 0	.90	(1, 1)	C 0	.90	(2,13)	C 0	.80	(2,11)	C 0	.50	(1, 2)	C 0
3	.70	(1, 2)	C 0	.70	(2,14)	C 0	.60	(1, 1)	C 0	.60	(2,13)	C 0	.40	(1, 3)	C 0
4	1.00	(1, 1)	C 0	1.00	(1, 2)	C 0	1.00	(2,13)	C 0	1.00	(2,14)	C 0	.70	(1, 3)	C 0
5	2.90	(1, 3)	C 0	2.90	(2,15)	C 0	2.80	(1, 4)	C 0	2.80	(2,16)	C 0	2.40	(1, 5)	C 0

JOB: GWUH PROP PM 23&WC RUN: GWHU PROP EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
6	3.00	(2,11)	C 0	2.80	(2,10)	C 0	2.50	(2,12)	C 0	2.20	(2, 9)	C 0	1.40	(1, 1)	C 0
7	4.10*	(2,10)	C 0	3.70*	(2, 9)	C 0	3.50	(2,11)	C 0	3.00	(2, 8)	C 0	2.30	(2,12)	C 0
8	3.40	(1, 5)	C 0	3.40	(2,17)	C 0	3.20	(1, 4)	C 0	3.20	(2,16)	C 0	3.00	(1, 6)	C 0
9	2.90	(1,23)	C 0	2.90	(1,24)	C 0	2.80	(2, 1)	C 0	2.80	(2, 5)	C 0	2.80	(2, 6)	C 0
10	2.50	(1,13)	C 0	2.50	(1,14)	C 0	2.30	(1,12)	C 0	2.30	(1,15)	C 0	2.30	(2,24)	C 0
11	2.20	(1, 8)	C 0	2.20	(2,20)	C 0	2.10	(1, 9)	C 0	2.10	(2,21)	C 0	2.10	(1,12)	C 0
12	2.00	(1,11)	C 0	2.00	(2,23)	C 0	1.90	(1,12)	C 0	1.90	(2,24)	C 0	1.50	(1,13)	C 0

JOB: GWUH PROP PM 23&WC RUN: GWHU PROP EVENING

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences

No calm wind hours were encountered during this processing period.

Program terminated normally

APEX.MET

APEX.MET

99823 96 99823 96

96	1	1	1	251.0000	3.0866	268.1	5	517.2	455.0
96	1	1	2	268.0000	5.1444	268.7	4	505.9	505.9
96	1	1	3	274.0000	5.1444	269.3	4	494.6	494.6
96	1	1	4	273.0000	5.1444	269.8	4	483.2	483.2
96	1	1	5	263.0000	6.1733	270.4	4	471.9	471.9
96	1	1	6	272.0000	6.1733	270.4	4	460.6	460.6
96	1	1	7	255.0000	6.1733	270.9	4	449.3	449.3
96	1	1	8	243.0000	7.2022	270.9	4	437.9	437.9
96	1	1	9	237.0000	3.6011	271.5	4	426.6	426.6
96	1	110		231.0000	6.6877	272.6	4	415.3	415.3
96	1	111		254.0000	7.2022	272 6	4	404.0	404.0
96	1	112		226.0000	2.5722	272.0	4	392.6	392.6
96	1	113		173.0000	2.5722	272.0	4	381.3	381.3
96	1	114		209.0000	4.1155	272.0	4	370.0	370.0
96	1	115		242.0000	3.0866	272.0	4	370.0	370.0
96	1	116		314.0000	2.5722	272.0	4	370.0	370.0
96	1	117		41.0000	2.0578	272.0	4	370.3	370.3
96	1	118		77.0000	2.5722	272.0	4	387.4	387.4
96	1	119		84.0000	4.1155	272.0	4	404.6	404.6
96	1	120		87.0000	7.2022	273.7	4	421.7	421.7
96	1	121		90.0000	10.2888	273.7	4	438.8	438.8
96	1	122		92.0000	6.1733	272.0	4	456.0	456.0
96	1	123		80.0000	8.2310	272.0	4	473.1	473.1
96	1	124		80.0000	7.2022	272.0	4	490.2	490.2
96	1	2	1	66.0000	7.2022	270.4	4	507.2	507.2
96	1	2	2	62.0000	6.6877	269.8	4	524.3	524.3
96	1	2	3	52.0000	6.1733	270.4	4	541.5	541.5
96	1	2	4	50.0000	7.2022	270.4	4	558.6	558.6
96	1	2	5	46.0000	7.2022	270.9	4	575.8	575.8
96	1	2	6	57.0000	6.6877	270.9	4	592.9	592.9
96	1	2	7	69.0000	7.7166	270.9	4	610.0	610.0
96	1	2	8	56.0000	7.7166	270.9	4	627.2	627.2
96	1	2	9	50.0000	7.7166	270.9	4	964.3	644.3
96	1	210		51.0000	7.7166	270.9	4	661.5	661.5
96	1	211		65.0000	9.2599	270.9	4	678.6	678.6
96	1	212		51.0000	9.7744	271.5	4	695.7	695.7
96	1	213		49.0000	8.2310	272.0	4	712.9	712.9
96	1	214		47.0000	8.2310	272.6	4	730.0	730.0
96	1	215		50.0000	7.7166	273.7	4	730.0	730.0
96	1	216		54.0000	6.6877	273.7	4	730.0	730.0
96	1	217		48.0000	6.1733	274.3	4	730.0	730.0
96	1	218		51.0000	6.1733	274.3	4	727.9	727.9
96	1	219		42.0000	5.6588	274.3	4	725.9	725.9
96	1	220		25.0000	4.6300	274.8	4	723.8	723.8
96	1	221		44.0000	6.1733	275.9	4	721.8	721.8
96	1	222		35.0000	6.6877	277.0	4	719.8	719.8
96	1	223		27.0000	6.6877	277.6	4	717.7	717.7
96	1	224		38.0000	8.2310	278.7	4	715.7	715.7
96	1	3	1	50.0000	7.7166	279.3	4	713.6	713.6
96	1	3	2	36.0000	6.1733	279.3	4	711.6	711.6
96	1	3	3	54.0000	9.2599	279.3	4	709.5	709.5
96	1	3	4	50.0000	8.7455	279.3	4	707.5	707.5
96	1	3	5	27.0000	8.7455	279.8	4	705.4	705.4
96	1	3	6	39.0000	6.1733	279.8	4	703.4	703.4
96	1	3	7	36.0000	9.2599	279.8	4	701.3	701.3
96	1	3	8	39.0000	6.6877	279.8	4	699.3	699.3
96	1	3	9	28.0000	6.1733	279.8	4	697.2	697.2
96	1	310		44.0000	7.7166	280.4	4	695.2	695.2
96	1	311		52.0000	8.2310	280.9	4	693.2	693.2
96	1	312		48.0000	8.2310	281.5	4	691.1	691.1
96	1	313		51.0000	7.7166	282.6	4	689.0	689.0
96	1	314		62.0000	10.2888	282.6	4	687.0	687.0
96	1	315		37.0000	8.7455	283.2	4	687.0	687.0
96	1	316		70.0000	8.7455	282.0	4	687.0	687.0
96	1	317		59.0000	9.2599	281.5	4	687.0	687.0
96	1	318		61.0000	7.2022	280.9	4	690.6	690.6
96	1	319		67.0000	6.6877	280.4	4	694.3	694.3
96	1	320		68.0000	6.6877	280.9	4	698.0	698.0
96	1	321		67.0000	9.2599	280.9	4	701.6	701.6
96	1	322		79.0000	10.8032	280.4	4	705.3	705.3

96	1	323	91.0000	8.2310	279.8	4	709.0	709.0
96	1	324	87.0000	7.7166	278.7	4	712.7	712.7
96	1	4 1	86.0000	7.2022	278.7	4	716.3	716.3
96	1	4 2	106.0000	8.7455	277.6	4	720.0	720.0
96	1	4 3	108.0000	7.7166	276.5	4	723.6	723.6
96	1	4 4	69.0000	8.2310	275.9	4	727.3	727.3
96	1	4 5	71.0000	8.7455	275.9	4	731.0	731.0
96	1	4 6	92.0000	7.7166	275.9	4	734.6	734.6
96	1	4 7	66.0000	6.6877	275.9	4	738.3	738.3
96	1	4 8	68.0000	7.7166	275.9	4	742.0	742.0
96	1	4 9	66.0000	7.7166	275.4	4	745.7	745.7
96	1	410	67.0000	9.2599	275.4	4	749.3	749.3
96	1	411	87.0000	8.7455	274.8	4	753.0	753.0
96	1	412	73.0000	7.2022	274.8	4	756.7	756.7
96	1	413	95.0000	8.7455	274.8	4	760.3	760.3
96	1	414	92.0000	7.7166	275.4	4	764.0	764.0
96	1	415	91.0000	7.2022	274.8	4	764.0	764.0
96	1	416	90.0000	5.1444	274.3	4	764.0	764.0
96	1	417	93.0000	6.1733	274.3	4	764.0	764.0
96	1	418	89.0000	6.1733	274.3	4	745.5	745.5
96	1	419	87.0000	6.1733	274.3	4	726.5	726.5
96	1	420	69.0000	5.1444	273.7	5	707.5	556.2
96	1	421	57.0000	6.6877	273.1	4	688.5	688.5
96	1	422	69.0000	6.1733	273.1	4	669.6	669.6
96	1	423	52.0000	5.1444	272.6	5	650.6	346.8
96	1	424	48.0000	5.1444	272.6	5	631.6	277.0
96	1	5 1	45.0000	4.6300	271.5	5	612.8	277.0
96	1	5 2	44.0000	4.1155	271.5	5	593.8	277.0
96	1	5 3	47.0000	5.1444	272.0	5	574.8	277.0
96	1	5 4	50.0000	5.1444	272.0	5	555.9	277.0
96	1	5 5	52.0000	4.6300	272.0	5	536.9	277.0
96	1	5 6	45.0000	5.6588	272.0	4	517.9	517.9
96	1	5 7	62.0000	4.1155	272.0	5	498.9	277.0
96	1	5 8	65.0000	5.1444	272.0	4	10.1	279.5
96	1	5 9	49.0000	5.1444	272.0	4	69.4	293.9
96	1	510	58.0000	5.6588	274.3	4	128.7	308.3
96	1	511	58.0000	6.6877	275.9	4	188.0	322.7
96	1	512	59.0000	6.6877	277.6	4	247.4	337.1
96	1	513	58.0000	7.2022	278.7	4	306.7	351.6
96	1	514	60.0000	6.6877	279.3	4	366.0	366.0
96	1	515	55.0000	6.6877	279.8	4	366.0	366.0
96	1	516	48.0000	6.1733	279.8	4	366.0	366.0
96	1	517	49.0000	4.1155	278.7	4	366.0	366.0
96	1	518	46.0000	4.1155	277.6	5	352.5	327.3
96	1	519	37.0000	3.0866	277.0	6	338.4	287.1
96	1	520	37.0000	3.0866	277.0	6	324.3	246.9
96	1	521	42.0000	3.0866	275.9	6	310.2	206.6
96	1	522	360.0000	3.0866	275.4	6	296.2	166.4
96	1	523	358.0000	3.0866	275.4	6	282.1	126.2
96	1	524	332.0000	3.0866	274.3	5	268.0	86.0
96	1	6 1	336.0000	2.5722	274.3	6	254.1	86.0
96	1	6 2	323.0000	3.6011	273.1	5	240.0	86.0
96	1	6 3	315.0000	3.0866	273.7	5	225.9	86.0
96	1	6 4	323.0000	3.6011	274.3	4	211.8	211.8
96	1	6 5	322.0000	2.5722	273.7	5	197.7	86.0
96	1	6 6	336.0000	4.1155	274.8	4	183.7	183.7
96	1	6 7	338.0000	2.5722	275.9	4	169.6	169.6
96	1	6 8	352.0000	2.0578	276.5	4	155.5	155.5
96	1	6 9	38.0000	5.6588	276.5	4	141.4	141.4
96	1	610	28.0000	5.1444	277.0	4	127.3	127.3
96	1	611	45.0000	6.6877	277.0	4	113.3	113.3
96	1	612	36.0000	6.6877	277.0	4	99.2	99.2
96	1	613	41.0000	7.2022	277.6	4	85.1	85.1
96	1	614	45.0000	7.2022	277.6	4	71.0	71.0
96	1	615	52.0000	6.6877	277.6	4	71.0	71.0
96	1	616	62.0000	6.1733	277.6	4	71.0	71.0
96	1	617	52.0000	6.1733	277.6	4	71.0	71.0
96	1	618	65.0000	6.6877	277.6	4	96.5	96.5
96	1	619	58.0000	5.1444	277.6	4	123.4	123.4
96	1	620	81.0000	5.1444	277.6	4	150.2	150.2
96	1	621	62.0000	3.0866	277.6	4	177.1	177.1

96	1	622	36.0000	3.0866	277	0	4	204.0	204.0
96	1	623	92.0000	3.0866	277	0	5	230 9	856.0
96	1	624	96.0000	3.0866	276	5	5	257 7	988.0
96	1	7	1 128.0000	3.6011	275	9	4	284.4	284.4
96	1	7	2 163.0000	4.1155	275	9	4	311 3	311.3
96	1	7	3 180.0000	4.6300	275	4	4	338 1	338.1
96	1	7	4 155.0000	3.6011	274	8	4	365.0	365.0
96	1	7	5 163.0000	3.0866	274	3	5	391.9	988.0
96	1	7	6 156.0000	4.1155	274	3	4	418.8	418.8
96	1	7	7 169.0000	3.6011	274	3	4	445.7	445.7
96	1	7	8 184.0000	3.0866	273	7	4	472.6	472.6
96	1	7	9 200.0000	2.0578	273	7	4	499.5	499.5
96	1	710	204.0000	2.5722	273	7	4	526.4	526.4
96	1	711	243.0000	2.0578	273	7	4	553.3	553.3
96	1	712	192.0000	1.5433	273	7	4	580.2	580.2
96	1	713	191.0000	.0000	274	3	4	607.1	607.1
96	1	714	126.0000	4.1155	274	8	4	634.0	634.0
96	1	715	87.0000	2.0578	274	8	4	634.0	634.0
96	1	716	115.0000	2.5722	274	8	4	634.0	634.0
96	1	717	84.0000	2.0578	274	8	4	634.0	634.0
96	1	718	74.0000	2.5722	273	1	5	632.8	578.7
96	1	719	91.0000	2.0578	273	1	6	631.5	519.4
96	1	720	162.0000	1.5433	272	0	7	630.2	460.1
96	1	721	358.0000	1.5433	270	9	7	628.9	400.9
96	1	722	182.0000	2.5722	270	9	6	627.6	341.6
96	1	723	261.0000	2.5722	270	9	6	626.3	282.3
96	1	724	255.0000	2.5722	270	4	6	625.1	223.0
96	1	8	1 259.0000	2.5722	270	9	6	623.8	223.0
96	1	8	2 251.0000	3.6011	270	9	5	622.5	223.0
96	1	8	3 278.0000	3.0866	270	9	6	621.2	223.0
96	1	8	4 245.0000	3.6011	270	4	5	619.9	223.0
96	1	8	5 247.0000	2.0578	270	4	6	618.6	223.0
96	1	8	6 255.0000	4.1155	270	4	5	617.3	223.0
96	1	8	7 285.0000	2.5722	269	8	6	616.0	223.0
96	1	8	8 271.0000	3.0866	269	8	5	17.1	233.8
96	1	8	9 270.0000	3.6011	270	9	4	115.4	296.0
96	1	810	270.0000	5.6588	273	1	4	213.8	358.2
96	1	811	289.0000	5.1444	275	4	4	312.1	420.4
96	1	812	297.0000	5.6588	277	6	4	410.4	482.6
96	1	813	289.0000	5.6588	278	7	4	508.7	544.8
96	1	814	304.0000	5.6588	279	8	4	607.0	607.0
96	1	815	292.0000	4.6300	279	8	3	607.0	607.0
96	1	816	289.0000	4.6300	280	4	4	607.0	607.0
96	1	817	278.0000	3.6011	279	8	4	607.0	607.0
96	1	818	300.0000	5.1444	278	1	5	609.2	591.6
96	1	819	303.0000	5.1444	278	1	5	611.6	574.8
96	1	820	302.0000	5.1444	277	6	5	614.0	558.1
96	1	821	303.0000	4.1155	277	0	5	616.4	541.3
96	1	822	298.0000	6.1733	277	0	4	618.8	618.8
96	1	823	290.0000	5.1444	277	0	4	621.1	621.1
96	1	824	294.0000	5.1444	277	0	4	623.5	623.5
96	1	9	1 295.0000	5.6588	277	0	4	625.9	625.9
96	1	9	2 286.0000	5.6588	277	6	4	628.3	628.3
96	1	9	3 296.0000	6.1733	277	6	4	630.7	630.7
96	1	9	4 314.0000	6.1733	278	7	4	633.1	633.1
96	1	9	5 306.0000	6.1733	278	7	4	635.5	635.5
96	1	9	6 309.0000	6.1733	278	7	4	637.9	637.9
96	1	9	7 313.0000	7.2022	279	3	4	640.3	640.3
96	1	9	8 314.0000	6.6877	279	3	4	642.7	642.7
96	1	9	9 310.0000	6.6877	279	3	4	645.0	645.0
96	1	910	354.0000	4.1155	280	9	4	647.4	647.4
96	1	911	331.0000	7.2022	281	5	4	649.8	649.8
96	1	912	317.0000	5.6588	282	6	4	652.2	652.2
96	1	913	4.0000	3.6011	283	7	4	654.6	654.6
96	1	914	55.0000	7.2022	285	9	4	657.0	657.0
96	1	915	40.0000	6.6877	285	9	4	657.0	657.0
96	1	916	53.0000	6.6877	285	9	4	657.0	657.0
96	1	917	101.0000	5.6588	283	2	4	657.0	657.0
96	1	918	124.0000	6.1733	281	5	4	693.4	693.4
96	1	919	106.0000	7.2022	279	8	4	733.9	733.9
96	1	920	111.0000	8.2310	278	1	4	774.3	774.3

96	1 921	109.0000	8.2310	277.0	4	814.7	814.7
96	1 922	100 0000	9 2599	275.9	4	855.2	855 2
96	1 923	94.0000	9.2599	275.4	4	895.6	895.6
96	1 924	95 0000	10.2888	274.3	4	936.0	936.0
96	110 1	71 0000	10.2888	273.7	4	976.0	976.0
96	110 2	93.0000	10.2888	272.6	4	1016.5	1016.5
96	110 3	90 0000	10.2888	270.9	4	1056.9	1056.9
96	110 4	85.0000	11.3177	268.1	4	1097.4	1097.4
96	110 5	78.0000	11.3177	267.6	4	1137.9	1137.9
96	110 6	85.0000	9.2599	267.0	4	1178.3	1178.3
96	110 7	74.0000	8.2310	267.0	4	1218.8	1218.8
96	110 8	74.0000	12.3466	265.9	4	1259.2	1259.2
96	110 9	76.0000	8.2310	265.4	4	1299.7	1299.7
96	11010	72.0000	10.8032	264.8	4	1340.2	1340.2
96	11011	81.0000	9.2599	265.9	4	1380.6	1380.6
96	11012	83.0000	9.7744	267.6	4	1421.1	1421.1
96	11013	85.0000	13.8899	266.5	4	1461.5	1461.5
96	11014	76.0000	13.3754	267.0	4	1502.0	1502.0
96	11015	96.0000	12.3466	266.5	4	1502.0	1502.0
96	11016	98.0000	9.2599	265.9	4	1502.0	1502.0
96	11017	98.0000	9.7744	265.9	4	1502.0	1502.0
96	11018	87.0000	6.1733	265.4	4	1475.1	1475.1
96	11019	83.0000	4.6300	264.8	5	1444.6	1251.8
96	11020	79.0000	5.1444	264.8	5	1414.2	1119.0
96	11021	75.0000	5.6588	264.8	4	1383.7	1383.7
96	11022	72.0000	5.1444	264.3	5	1353.3	853.5
96	11023	78.0000	4.1155	264.3	5	1322.8	720.8
96	11024	81.0000	3.6011	263.7	5	1292.3	588.0
96	111 1	90.0000	3.0866	263.7	6	1262.2	588.0
96	111 2	94.0000	3.0866	263.1	6	1231.7	588.0
96	111 3	103.0000	2.0578	263.1	6	1201.3	588.0
96	111 4	14.0000	2.0578	261.5	6	1170.8	588.0
96	111 5	13.0000	.0000	262.0	7	1140.3	588.0
96	111 6	64.0000	2.0578	262.0	6	1109.8	588.0
96	111 7	82.0000	1.5433	262.0	7	1079.3	588.0
96	111 8	71.0000	2.0578	261.5	6	25.8	596.3
96	111 9	92.0000	2.5722	263.1	5	165.8	641.2
96	11110	325.0000	2.5722	265.4	4	305.8	686.2
96	11111	317.0000	2.0578	267.0	3	445.9	731.1
96	11112	340.0000	4.1155	268.1	3	585.9	776.1
96	11113	345.0000	.0000	268.7	2	726.0	821.0
96	11114	264.0000	1.5433	269.8	2	866.0	866.0
96	11115	67.0000	1.5433	270.9	2	866.0	866.0
96	11116	261.0000	3.0866	271.5	3	866.0	866.0
96	11117	203.0000	3.0866	270.9	4	866.0	866.0
96	11118	196.0000	5.1444	269.8	5	852.9	869.0
96	11119	209.0000	3.6011	268.1	5	837.8	872.5
96	11120	214.0000	4.1155	267.6	5	822.7	876.0
96	11121	206.0000	5.6588	267.0	4	807.6	807.6
96	11122	206.0000	5.1444	267.0	4	792.5	792.5
96	11123	211.0000	4.6300	266.5	4	777.4	777.4
96	11124	209.0000	5.1444	265.9	4	762.3	762.3
96	112 1	188.0000	6.1733	265.9	4	747.4	747.4
96	112 2	209.0000	6.1733	265.9	4	732.3	732.3
96	112 3	224.0000	6.1733	265.9	4	717.2	717.2
96	112 4	226.0000	7.7166	265.9	4	702.1	702.1
96	112 5	237.0000	7.2022	265.9	4	687.0	687.0
96	112 6	218.0000	8.2310	265.9	4	671.9	671.9
96	112 7	238.0000	6.6877	265.4	4	656.8	656.8
96	112 8	242.0000	6.6877	265.4	4	641.6	641.6
96	112 9	253.0000	6.6877	265.4	4	626.5	626.5
96	11210	251.0000	7.2022	265.9	4	611.4	611.4
96	11211	258.0000	6.6877	265.9	4	596.3	596.3
96	11212	239.0000	8.2310	265.9	4	581.2	581.2
96	11213	248 0000	8.7455	265.9	4	566.1	566.1
96	11214	238.0000	11.3177	265.9	4	551.0	551.0
96	11215	251.0000	7.2022	264.8	4	551.0	551.0
96	11216	249.0000	7.2022	263.7	4	551.0	551.0
96	11217	246.0000	9.7744	263.7	4	551.0	551.0
96	11218	249.0000	7.2022	263.1	4	548.0	548.0
96	11219	262.0000	7.2022	262.6	4	544.4	544.4

96	11220	255.0000	6.6877	262.6	4	540.9	540.9
96	11221	246.0000	7.7166	262.0	4	537.3	537.3
96	11222	247.0000	9.7744	262.0	4	533.8	533.8
96	11223	255.0000	9.2599	262.0	4	530.2	530.2
96	11224	240.0000	6.6877	262.6	4	526.7	526.7
96	113 1	249.0000	7.2022	262.6	4	523.2	523.2
96	113 2	248.0000	10.2888	262.6	4	519.6	519.6
96	113 3	253.0000	8.2310	262.6	4	516.1	516.1
96	113 4	249.0000	7.7166	262.6	4	512.5	512.5
96	113 5	244.0000	5.6588	262.6	4	509.0	509.0
96	113 6	210.0000	5.6588	262.6	4	505.4	505.4
96	113 7	197.0000	7.2022	263.1	4	501.9	501.9
96	113 8	213.0000	6.6877	262.6	4	498.3	498.3
96	113 9	211.0000	7.2022	262.6	4	494.8	494.8
96	11310	203.0000	6.1733	263.1	4	491.2	491.2
96	11311	192.0000	6.1733	263.1	4	487.7	487.7
96	11312	181.0000	8.7455	263.7	4	484.1	484.1
96	11313	190.0000	7.7166	263.7	4	480.5	480.5
96	11314	177.0000	7.7166	263.7	4	477.0	477.0
96	11315	181.0000	8.2310	264.3	4	477.0	477.0
96	11316	176.0000	8.2310	264.3	4	477.0	477.0
96	11317	177.0000	8.7455	264.3	4	477.0	477.0
96	11318	164.0000	6.6877	263.7	4	487.4	487.4
96	11319	160.0000	7.2022	263.7	4	500.0	500.0
96	11320	146.0000	7.2022	263.1	4	512.5	512.5
96	11321	148.0000	6.6877	262.6	4	525.0	525.0
96	11322	161.0000	5.6588	261.5	4	537.5	537.5
96	11323	140.0000	6.6877	261.5	4	550.1	550.1
96	11324	148.0000	6.6877	260.9	4	562.6	562.6
96	114 1	144.0000	6.1733	259.3	4	575.0	575.0
96	114 2	133.0000	3.6011	255.9	5	587.5	209.0
96	114 3	128.0000	3.6011	255.4	4	600.1	600.1
96	114 4	110.0000	3.6011	255.9	4	612.6	612.6
96	114 5	132.0000	3.6011	254.8	4	625.2	625.2
96	114 6	106.0000	2.0578	253.1	5	637.7	209.0
96	114 7	82.0000	3.0866	253.1	6	650.2	209.0
96	114 8	84.0000	2.0578	253.1	5	23.7	226.0
96	114 9	80.0000	2.0578	254.8	4	142.8	311.3
96	11410	80.0000	2.0578	257.0	4	261.8	396.7
96	11411	88.0000	5.1444	260.4	4	380.9	482.0
96	11412	87.0000	6.1733	263.1	4	499.9	567.3
96	11413	103.0000	5.1444	264.3	4	619.0	652.7
96	11414	101.0000	6.1733	264.8	4	738.0	738.0
96	11415	87.0000	5.1444	264.8	4	738.0	738.0
96	11416	76.0000	5.6588	264.8	4	738.0	738.0
96	11417	52.0000	4.6300	263.1	4	738.0	738.0
96	11418	56.0000	3.6011	260.9	5	732.6	673.0
96	11419	55.0000	3.6011	259.8	5	726.0	593.3
96	11420	63.0000	3.6011	259.3	5	719.5	513.7
96	11421	46.0000	3.6011	260.4	5	712.9	434.0
96	11422	27.0000	2.5722	260.9	6	706.3	354.3
96	11423	37.0000	3.0866	259.8	6	699.7	274.7
96	11424	50.0000	2.5722	258.7	6	693.1	195.0
96	115 1	360.0000	2.5722	258.7	6	686.6	195.0
96	115 2	12.0000	3.0866	258.1	6	680.0	195.0
96	115 3	348.0000	3.0866	258.7	5	673.5	195.0
96	115 4	340.0000	3.0866	259.8	5	666.9	195.0
96	115 5	345.0000	2.5722	259.3	5	660.3	195.0
96	115 6	350.0000	3.6011	258.7	5	653.7	195.0
96	115 7	359.0000	3.0866	258.7	6	647.1	195.0
96	115 8	352.0000	3.0866	258.7	5	19.9	208.4
96	115 9	347.0000	2.5722	259.8	4	116.8	273.9
96	11510	357.0000	3.6011	262.6	3	213.6	339.3
96	11511	42.0000	6.1733	264.8	4	310.5	404.7
96	11512	40.0000	5.1444	267.0	4	407.3	470.1
96	11513	54.0000	7.2022	268.7	4	504.1	535.6
96	11514	50.0000	6.1733	268.7	4	601.0	601.0
96	11515	53.0000	6.1733	269.3	4	601.0	601.0
96	11516	36.0000	6.6877	269.8	4	601.0	601.0
96	11517	53.0000	5.6588	268.7	4	601.0	601.0
96	11518	37.0000	3.6011	267.0	5	599.6	574.0

96	11519	41.0000	3.6011	265.9	5	597.9	540.2
96	11520	32.0000	3.6011	266.5	5	596.2	506.3
96	11521	24.0000	4.1155	264.8	5	594.4	472.5
96	11522	43.0000	4.6300	265.9	5	592.7	438.7
96	11523	39.0000	4.1155	266.5	5	591.0	404.8
96	11524	40.0000	4.6300	267.0	5	589.2	371.0
96	116 1	46.0000	5.1444	267.0	5	587.5	371.0
96	116 2	49.0000	6.1733	267.0	4	585.8	585.8
96	116 3	57.0000	6.1733	266.5	4	584.1	584.1
96	116 4	49.0000	5.6588	266.5	4	582.3	582.3
96	116 5	54.0000	5.1444	265.9	5	580.6	371.0
96	116 6	52.0000	6.1733	266.5	4	578.9	578.9
96	116 7	52.0000	5.6588	267.0	4	577.1	577.1
96	116 8	48.0000	5.1444	265.9	4	575.4	575.4
96	116 9	52.0000	6.1733	267.6	4	573.7	573.7
96	11610	37.0000	7.7166	269.3	4	571.9	571.9
96	11611	51.0000	6.1733	270.4	4	570.2	570.2
96	11612	52.0000	6.1733	272.0	4	568.5	568.5
96	11613	52.0000	7.7166	272.6	4	566.7	566.7
96	11614	60.0000	7.2022	273.7	4	565.0	565.0
96	11615	51.0000	5.6588	274.3	4	565.0	565.0
96	11616	35.0000	4.6300	274.3	4	565.0	565.0
96	11617	356.0000	3.6011	273.7	4	565.0	565.0
96	11618	51.0000	3.6011	273.7	4	589.6	589.6
96	11619	79.0000	5.1444	272.6	5	621.3	780.5
96	11620	80.0000	5.1444	271.5	4	652.9	652.9
96	11621	106.0000	4.1155	272.0	4	684.5	684.5
96	11622	76.0000	6.1733	271.5	4	716.1	716.1
96	11623	89.0000	5.1444	271.5	4	747.7	747.7
96	11624	102.0000	7.2022	270.9	4	779.3	779.3
96	117 1	87.0000	6.1733	270.4	4	810.6	810.6
96	117 2	88.0000	5.1444	270.4	4	842.3	842.3
96	117 3	79.0000	4.6300	270.4	4	873.9	873.9
96	117 4	84.0000	4.6300	270.4	4	905.5	905.5
96	117 5	93.0000	4.1155	270.4	4	937.2	937.2
96	117 6	67.0000	4.1155	269.8	4	968.8	968.8
96	117 7	70.0000	4.6300	269.8	4	1000.5	1000.5
96	117 8	91.0000	2.5722	269.8	4	1032.1	1032.1
96	117 9	24.0000	2.5722	269.3	4	1063.8	1063.8
96	11710	62.0000	3.0866	269.8	4	1095.4	1095.4
96	11711	16.0000	3.0866	270.4	4	1127.1	1127.1
96	11712	355.0000	5.6588	270.9	4	1158.7	1158.7
96	11713	336.0000	4.1155	270.9	3	1190.3	1190.3
96	11714	318.0000	5.1444	272.0	4	1222.0	1222.0
96	11715	324.0000	3.0866	272.6	3	1222.0	1222.0
96	11716	332.0000	3.6011	273.1	4	1222.0	1222.0
96	11717	318.0000	3.0866	272.0	4	1222.0	1222.0
96	11718	299.0000	3.6011	270.9	5	1205.1	1091.8
96	11719	309.0000	2.5722	270.4	6	1183.0	920.7
96	11720	317.0000	2.5722	270.9	6	1160.8	749.5
96	11721	298.0000	3.6011	269.3	5	1138.7	578.4
96	11722	318.0000	2.5722	268.1	6	1116.5	407.3
96	11723	311.0000	2.0578	268.7	6	1094.4	236.1
96	11724	309.0000	1.5433	268.7	7	1072.2	65.0
96	118 1	340.0000	1.5433	266.5	6	1050.3	65.0
96	118 2	309.0000	2.0578	268.7	5	1028.1	65.0
96	118 3	319.0000	2.0578	268.7	5	1006.0	65.0
96	118 4	343.0000	3.0866	269.8	6	983.8	65.0
96	118 5	15.0000	3.6011	270.4	5	961.6	65.0
96	118 6	32.0000	4.6300	272.0	5	939.4	65.0
96	118 7	29.0000	4.1155	270.9	5	917.2	65.0
96	118 8	28.0000	4.1155	270.9	4	27.9	90.5
96	118 9	43.0000	5.1444	272.0	4	150.2	202.4
96	11810	52.0000	6.1733	274.3	4	272.6	314.3
96	11811	37.0000	6.6877	275.4	4	394.9	426.3
96	11812	47.0000	7.2022	276.5	4	517.3	538.2
96	11813	51.0000	5.1444	277.0	4	639.6	650.1
96	11814	55.0000	5.6588	278.1	4	762.0	762.0
96	11815	51.0000	7.2022	278.7	4	762.0	762.0
96	11816	55.0000	8.2310	278.7	4	762.0	762.0
96	11817	59.0000	5.6588	277.6	4	762.0	762.0

96	11818	59.0000	4.1155	275.4	5	744.3	684.5
96	11819	55.0000	2.5722	274.8	6	720.3	580.1
96	11820	20.0000	2.0578	274.3	6	696.4	475.7
96	11821	19.0000	.0000	272.0	7	672.5	371.3
96	11822	21.0000	.0000	272.6	7	648.6	266.8
96	11823	23.0000	.0000	271.5	7	624.7	162.4
96	11824	306.0000	2.0578	270.9	6	600.8	58.0
96	119 1	337.0000	1.5433	270.4	7	577.2	58.0
96	119 2	287.0000	2.5722	270.4	6	553.2	58.0
96	119 3	295.0000	2.5722	270.4	6	529.3	58.0
96	119 4	256.0000	2.5722	270.4	6	505.4	58.0
96	119 5	263.0000	2.0578	268.7	6	481.4	58.0
96	119 6	298.0000	2.5722	268.7	6	457.5	58.0
96	119 7	302.0000	3.0866	269.8	6	433.5	58.0
96	119 8	312.0000	2.5722	269.3	5	10.1	65.9
96	119 9	297.0000	3.0866	270.9	4	52.7	99.2
96	11910	341.0000	2.5722	273.1	4	95.4	132.6
96	11911	354.0000	5.1444	276.5	4	138.0	165.9
96	11912	339.0000	4.6300	277.6	4	180.7	199.3
96	11913	350.0000	4.6300	279.3	4	223.4	232.6
96	11914	360.0000	4.6300	280.4	4	266.0	266.0
96	11915	1.0000	5.1444	280.4	4	266.0	266.0
96	11916	333.0000	4.1155	279.8	4	266.0	266.0
96	11917	314.0000	3.6011	279.3	4	266.0	266.0
96	11918	308.0000	3.6011	279.3	4	280.1	280.1
96	11919	330.0000	4.6300	278.7	4	299.7	299.7
96	11920	314.0000	3.0866	278.7	4	319.2	319.2
96	11921	317.0000	4.1155	278.7	4	338.8	338.8
96	11922	331.0000	4.1155	278.1	4	358.3	358.3
96	11923	328.0000	3.6011	277.6	4	377.9	377.9
96	11924	326.0000	5.1444	277.6	4	397.4	397.4
96	120 1	319.0000	3.6011	278.1	4	416.7	416.7
96	120 2	333.0000	4.6300	278.1	4	436.3	436.3
96	120 3	317.0000	5.1444	278.7	4	455.8	455.8
96	120 4	314.0000	5.1444	278.7	4	475.4	475.4
96	120 5	317.0000	5.1444	278.7	4	494.9	494.9
96	120 6	323.0000	4.1155	278.7	4	514.5	514.5
96	120 7	5.0000	5.1444	279.3	4	534.1	534.1
96	120 8	8.0000	5.6588	280.4	4	553.6	553.6
96	120 9	350.0000	6.1733	279.3	4	573.2	573.2
96	12010	5.0000	4.6300	279.3	4	592.8	592.8
96	12011	48.0000	5.6588	279.8	4	612.3	612.3
96	12012	26.0000	4.6300	279.3	4	631.9	631.9
96	12013	83.0000	9.7744	278.7	4	651.4	651.4
96	12014	70.0000	11.3177	276.5	4	671.0	671.0
96	12015	72.0000	8.7455	275.9	4	671.0	671.0
96	12016	73.0000	8.2310	275.9	4	671.0	671.0
96	12017	61.0000	6.1733	274.8	4	671.0	671.0
96	12018	79.0000	7.2022	274.8	4	684.7	684.7
96	12019	107.0000	11.3177	275.4	4	704.3	704.3
96	12020	125.0000	11.3177	275.4	4	723.8	723.8
96	12021	119.0000	11.3177	275.4	4	743.3	743.3
96	12022	124.0000	10.2888	274.8	4	762.8	762.8
96	12023	119.0000	11.3177	275.4	4	782.3	782.3
96	12024	118.0000	10.2888	274.8	4	801.8	801.8
96	121 1	109.0000	8.7455	274.3	4	821.1	821.1
96	121 2	110.0000	9.2599	274.3	4	840.6	840.6
96	121 3	109.0000	9.2599	274.3	4	860.2	860.2
96	121 4	110.0000	7.7166	273.7	4	879.7	879.7
96	121 5	107.0000	7.2022	273.7	4	899.2	899.2
96	121 6	91.0000	5.1444	272.0	5	918.8	464.0
96	121 7	59.0000	4.1155	270.9	5	938.3	464.0
96	121 8	47.0000	4.1155	272.0	4	43.8	488.9
96	121 9	55.0000	6.1733	273.1	4	215.7	586.6
96	12110	40.0000	7.7166	274.8	4	387.6	684.3
96	12111	62.0000	8.7455	276.5	4	559.4	782.0
96	12112	65.0000	8.7455	278.1	4	731.3	879.6
96	12113	59.0000	6.1733	279.8	4	903.1	977.3
96	12114	56.0000	6.1733	280.9	4	1075.0	1075.0
96	12115	80.0000	7.7166	281.5	4	1075.0	1075.0
96	12116	68.0000	7.2022	281.5	4	1075.0	1075.0

96	12117	68.0000	5	1444	280.9	4	1075.0	1075.0
96	12118	94.0000	3	0866	279.8	5	1058.6	974.6
96	12119	76.0000	2	0578	278.1	6	1034.7	827.8
96	12120	49.0000	3	6011	277.0	5	1010.8	681.0
96	12121	76.0000	3	6011	277.6	5	986.8	534.3
96	12122	87.0000	3	0866	277.0	6	962.9	387.5
96	12123	88.0000	2	0578	277.6	6	939.0	240.8
96	12124	89.0000		.0000	277.0	7	915.0	94.0
96	122 1	92.0000	2	0578	275.4	6	891.4	94.0
96	122 2	61.0000	2	0578	275.4	6	867.5	94.0
96	122 3	100.0000	1	5433	275.4	7	843.5	94.0
96	122 4	4.0000	1	5433	274.8	7	819.5	94.0
96	122 5	5.0000	1	5433	274.3	7	795.6	94.0
96	122 6	2.0000	1	5433	273.7	7	771.6	94.0
96	122 7	307.0000	2	0578	274.3	6	747.7	94.0
96	122 8	322.0000	2	0578	273.7	5	24.6	114.6
96	122 9	348.0000	1	0289	274.3	4	117.1	192.2
96	12210	324.0000	2	5722	275.9	3	209.7	269.7
96	12211	318.0000	4	1155	278.7	3	302.3	347.3
96	12212	353.0000	4	1155	280.9	3	394.9	424.9
96	12213	337.0000	3	6011	281.5	3	487.4	502.4
96	12214	357.0000	4	6300	283.7	3	580.0	580.0
96	12215	345.0000	4	6300	283.7	3	580.0	580.0
96	12216	334.0000	4	1155	283.7	4	580.0	580.0
96	12217	339.0000	4	1155	281.5	4	580.0	580.0
96	12218	326.0000	3	6011	280.9	5	569.0	535.2
96	12219	325.0000	3	6011	279.8	5	552.5	467.9
96	12220	317.0000	2	5722	280.4	6	536.0	400.5
96	12221	320.0000	2	5722	279.3	5	519.5	333.1
96	12222	305.0000	2	5722	280.4	5	503.0	265.7
96	12223	311.0000	2	5722	280.4	5	486.5	198.4
96	12224	323.0000	2	5722	279.8	5	470.0	131.0
96	123 1	320.0000	3	6011	279.3	4	453.7	453.7
96	123 2	317.0000	3	0866	278.7	5	437.2	131.0
96	123 3	360.0000	2	5722	280.4	5	420.7	131.0
96	123 4	320.0000	2	0578	279.8	5	404.2	131.0
96	123 5	319.0000	2	5722	279.8	5	387.7	131.0
96	123 6	301.0000	2	0578	279.8	5	371.1	131.0
96	123 7	339.0000	2	5722	279.3	5	354.6	131.0
96	123 8	327.0000	2	0578	279.3	4	10.5	135.8
96	123 9	355.0000	2	5722	279.8	4	48.6	153.0
96	12310	9.0000	3	6011	279.8	4	86.7	170.2
96	12311	356.0000	3	0866	281.5	4	124.8	187.4
96	12312	124.0000	5	1444	285.9	4	162.8	204.6
96	12313	60.0000	5	6588	287.0	4	200.9	221.8
96	12314	39.0000	5	1444	287.6	4	239.0	239.0
96	12315	50.0000	4	1155	287.6	4	239.0	239.0
96	12316	33.0000	3	0866	286.5	4	239.0	239.0
96	12317	2.0000	2	0578	285.9	4	239.0	239.0
96	12318	5.0000	1	5433	283.7	5	235.4	225.1
96	12319	4.0000		.0000	283.2	6	229.9	203.6
96	12320	111.0000	1	5433	280.4	7	224.4	182.1
96	12321	177.0000	3	0866	283.7	6	218.9	160.6
96	12322	207.0000	3	6011	279.3	5	213.4	139.0
96	12323	207.0000		.0000	278.1	6	207.8	117.5
96	12324	210.0000		.0000	278.7	7	202.3	96.0
96	124 1	356.0000	1	5433	277.0	7	196.9	96.0
96	124 2	359.0000		.0000	277.6	7	191.3	96.0
96	124 3	357.0000		.0000	277.0	7	185.8	96.0
96	124 4	238.0000	1	5433	276.5	7	180.3	96.0
96	124 5	269.0000	2	5722	276.5	6	174.8	96.0
96	124 6	262.0000	2	5722	276.5	6	169.2	96.0
96	124 7	267.0000	2	5722	275.9	5	163.7	96.0
96	124 8	293.0000	2	5722	276.5	4	5.7	97.3
96	124 9	298.0000	2	5722	276.5	4	25.6	101.9
96	12410	274.0000	2	0578	277.0	4	45.5	106.6
96	12411	287.0000	2	5722	278.1	4	65.4	111.2
96	12412	268.0000	2	0578	279.3	4	85.2	115.8
96	12413	289.0000	2	5722	280.9	4	105.1	120.4
96	12414	307.0000	3	0866	281.5	4	125.0	125.0
96	12415	303.0000	1	5433	282.6	3	125.0	125.0

96	12416	278.0000	2.5722	283	2	4	125 0	125.0
96	12417	288.0000	2.5722	282.6		4	125 0	125.0
96	12418	292.0000	2.5722	280	4	5	151 2	217.5
96	12419	322.0000	3.0866	280	9	5	193.1	365.6
96	12420	312.0000	3.6011	281	5	4	235.0	235.0
96	12421	335 0000	4.1155	281.5		4	276.9	276.9
96	12422	305.0000	5.6588	282.0		4	318.7	318.7
96	12423	343.0000	6.1733	283.7		4	360 6	360.6
96	12424	349.0000	6.1733	285.9		4	402.5	402.5
96	125 1	340.0000	5.1444	284.8		4	443.9	443.9
96	125 2	332.0000	5.1444	284.3		4	485.8	485.8
96	125 3	344.0000	5.1444	284.3		4	527.8	527.8
96	125 4	345.0000	4.6300	284.3		4	569.7	569.7
96	125 5	1.0000	5.6588	285.4		4	611.6	611.6
96	125 6	85.0000	9.2599	282.6		4	653.5	653.5
96	125 7	66.0000	9.7744	280.4		4	695.5	695.5
96	125 8	81.0000	12.3466	277.0		4	737.4	737.4
96	125 9	54.0000	11.3177	276.5		4	779.3	779.3
96	12510	52.0000	6.1733	276.5		4	821.3	821.3
96	12511	61.0000	14.4043	275.9		4	863.2	863.2
96	12512	48.0000	15.4332	275.9		4	905.1	905.1
96	12513	63.0000	13.3754	274.8		4	947.1	947.1
96	12514	72.0000	11.3177	274.8		4	989.0	989.0
96	12515	62.0000	8.7455	275.4		4	989.0	989.0
96	12516	60.0000	10.2888	275.4		4	989.0	989.0
96	12517	46.0000	11.3177	275.4		4	989.0	989.0
96	12518	61.0000	11.3177	274.3		4	1014.4	1014.4
96	12519	71.0000	10.2888	274.3		4	1056.3	1056.3
96	12520	60.0000	7.7166	274.3		4	1098.2	1098.2
96	12521	58.0000	13.3754	274.8		4	1140.2	1140.2
96	12522	70.0000	15.9476	274.8		4	1182.1	1182.1
96	12523	67.0000	12.8610	274.8		4	1224.0	1224.0
96	12524	70.0000	14.4043	274.8		4	1265.9	1265.9
96	126 1	72.0000	9.7744	274.3		4	1307.3	1307.3
96	126 2	75.0000	10.2888	274.3		4	1349.3	1349.3
96	126 3	58.0000	11.3177	274.3		4	1391.3	1391.3
96	126 4	48.0000	10.8032	273.7		4	1433.3	1433.3
96	126 5	74.0000	9.2599	273.7		4	1475.2	1475.2
96	126 6	56.0000	8.2310	273.7		4	1517.2	1517.2
96	126 7	63.0000	9.2599	273.1		4	1559.2	1559.2
96	126 8	56.0000	10.2888	273.7		4	1601.2	1601.2
96	126 9	63.0000	11.8321	273.7		4	1963.1	1643.1
96	12610	84.0000	13.3754	274.8		4	1685.1	1685.1
96	12611	82.0000	14.4043	275.4		4	1727.1	1727.1
96	12612	66.0000	15.4332	275.9		4	1769.1	1769.1
96	12613	76.0000	14.4043	276.5		4	1811.0	1811.0
96	12614	82.0000	13.3754	276.5		4	1853.0	1853.0
96	12615	76.0000	14.4043	276.5		4	1853.0	1853.0
96	12616	80.0000	12.3466	275.9		4	1853.0	1853.0
96	12617	95.0000	9.7744	275.4		4	1853.0	1853.0
96	12618	91.0000	9.2599	274.3		4	1836.3	1836.3
96	12619	84.0000	7.7166	273.7		4	1807.8	1807.8
96	12620	78.0000	8.7455	273.7		4	1779.3	1779.3
96	12621	86.0000	7.7166	273.1		4	1750.8	1750.8
96	12622	86.0000	7.7166	272.6		4	1722.3	1722.3
96	12623	84.0000	6.6877	272.0		4	1693.8	1693.8
96	12624	88.0000	6.1733	272.0		4	1665.2	1665.2
96	127 1	91.0000	6.1733	271.5		4	1637.1	1637.1
96	127 2	82.0000	5.1444	270.4		5	1608.5	844.0
96	127 3	81.0000	4.6300	269.3		5	1580.0	844.0
96	127 4	81.0000	5.1444	269.8		5	1551.4	844.0
96	127 5	58.0000	3.0866	268.7		6	1522.9	844.0
96	127 6	31.0000	3.0866	268.1		6	1494.4	844.0
96	127 7	57.0000	1.5433	268.7		7	1465.8	844.0
96	127 8	20.0000	3.0866	267.0		6	65.0	865.7
96	127 9	61.0000	5.1444	269.8		5	265.1	932.4
96	12710	52.0000	7.2022	272.6		4	465.3	999.1
96	12711	63.0000	6.6877	274.3		4	665.5	1065.8
96	12712	80.0000	5.6588	276.5		4	865.7	1132.6
96	12713	76.0000	5.6588	277.0		4	1065.8	1199.3
96	12714	57.0000	7.2022	277.6		4	1266.0	1266.0

96	12715	74.0000	7.2022	277.6	4	1266.0	1266.0
96	12716	56.0000	5.1444	277.6	4	1266.0	1266.0
96	12717	68.0000	4.1155	277.0	4	1266.0	1266.0
96	12718	121.0000	2.0578	276.5	5	1283.8	1318.8
96	12719	106.0000	2.5722	275.9	5	1315.4	1412.3
96	12720	116.0000	1.5433	275.4	6	1347.1	1505.8
96	12721	138.0000	3.0866	274.8	5	1378.7	1599.4
96	12722	91.0000	4.1155	274.3	4	1410.3	1410.3
96	12723	86.0000	7.7166	273.7	4	1441.9	1441.9
96	12724	116.0000	7.7166	272.0	4	1473.5	1473.5
96	128 1	97.0000	3.6011	270.9	5	1504.7	1880.0
96	128 2	60.0000	5.1444	270.9	4	1536.3	1536.3
96	128 3	117.0000	10.8032	268.7	4	1568.0	1568.0
96	128 4	104.0000	11.3177	267.6	4	1599.6	1599.6
96	128 5	112.0000	8.2310	266.5	4	1631.2	1631.2
96	128 6	107.0000	9.7744	264.3	4	1662.9	1662.9
96	128 7	96.0000	6.6877	263.1	4	1694.5	1694.5
96	128 8	89.0000	5.1444	262.6	4	1726.2	1726.2
96	128 9	79.0000	7.7166	263.1	4	1757.8	1757.8
96	12810	104.0000	6.6877	264.8	4	1789.4	1789.4
96	12811	114.0000	7.7166	266.5	4	1821.1	1821.1
96	12812	116.0000	7.7166	268.1	4	1852.7	1852.7
96	12813	98.0000	5.6588	268.7	4	1884.4	1884.4
96	12814	105.0000	6.1733	269.8	4	1916.0	1916.0
96	12815	131.0000	6.1733	269.8	4	1916.0	1916.0
96	12816	122.0000	6.6877	269.8	4	1916.0	1916.0
96	12817	121.0000	7.7166	269.8	4	1916.0	1916.0
96	12818	128.0000	7.2022	268.7	4	1887.4	1887.4
96	12819	128.0000	5.1444	267.6	4	1834.9	1834.9
96	12820	140.0000	5.6588	267.6	4	1782.4	1782.4
96	12821	137.0000	4.1155	267.6	4	1729.9	1729.9
96	12822	121.0000	4.1155	266.5	4	1677.3	1677.3
96	12823	118.0000	3.0866	265.9	5	1624.8	846.0
96	12824	108.0000	2.0578	264.8	6	1572.3	653.0
96	129 1	97.0000	2.5722	264.8	5	1520.5	653.0
96	129 2	102.0000	2.0578	265.9	5	1467.9	653.0
96	129 3	125.0000	2.0578	265.4	5	1415.3	653.0
96	129 4	131.0000	2.5722	264.8	5	1362.8	653.0
96	129 5	128.0000	.0000	264.3	6	1310.2	653.0
96	129 6	94.0000	2.0578	263.7	6	1257.6	653.0
96	129 7	93.0000	.0000	262.0	7	1205.0	653.0
96	129 8	94.0000	.0000	262.6	6	46.4	663.2
96	129 9	333.0000	2.5722	263.7	5	178.1	692.2
96	12910	39.0000	4.1155	267.0	4	309.9	721.1
96	12911	53.0000	5.1444	268.7	4	441.7	750.1
96	12912	50.0000	5.6588	269.8	4	573.5	779.1
96	12913	43.0000	5.1444	271.5	4	705.2	808.0
96	12914	1.0000	5.1444	272.6	4	837.0	837.0
96	12915	55.0000	4.6300	272.6	3	837.0	837.0
96	12916	24.0000	5.1444	273.1	4	837.0	837.0
96	12917	20.0000	4.1155	273.1	4	837.0	837.0
96	12918	7.0000	4.1155	272.0	4	834.4	834.4
96	12919	13.0000	3.6011	272.0	4	829.4	829.4
96	12920	7.0000	3.6011	272.6	4	824.3	824.3
96	12921	49.0000	5.1444	272.6	4	819.3	819.3
96	12922	52.0000	5.6588	273.1	4	814.3	814.3
96	12923	44.0000	6.6877	273.1	4	809.3	809.3
96	12924	58.0000	5.6588	273.1	4	804.3	804.3
96	130 1	75.0000	6.6877	274.3	4	799.3	799.3
96	130 2	82.0000	6.6877	273.1	4	794.3	794.3
96	130 3	67.0000	5.6588	272.6	4	789.3	789.3
96	130 4	83.0000	6.1733	273.1	4	784.2	784.2
96	130 5	80.0000	5.1444	273.1	4	779.2	779.2
96	130 6	78.0000	4.6300	273.1	4	774.2	774.2
96	130 7	102.0000	4.6300	273.1	4	769.2	769.2
96	130 8	105.0000	5.1444	273.1	4	764.1	764.1
96	130 9	77.0000	4.6300	273.1	4	759.1	759.1
96	13010	122.0000	6.1733	273.7	4	754.1	754.1
96	13011	132.0000	5.1444	274.3	4	749.1	749.1
96	13012	179.0000	4.6300	274.3	4	744.0	744.0
96	13013	184.0000	3.6011	273.7	4	739.0	739.0

JOB: GWUH PROP PM 23&WC RUN: GWHU PROP EVENING

General Information

Run start date: 1/ 1/64 Julian: 1
end date: 12/31/64 Julian: 366

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 64
Upper Air Sta. Id & Yr = 99999 64

Urban mixing heights were processed.

In 1964, Julian day 1 is a Wednesday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. 23&WC NB APPR	13.0	280.0	13.0	450.0	170.	360.	AG	11.0	45.0	
2. 23&WC NB QUEUE	13.0	425.0	13.0	305.0	120.	180.	AG	11.0	26.0	2
3. 23&WC SB DEP	-13.0	450.0	-13.0	280.0	170.	180.	AG	11.0	45.0	
4. 23&WC EB APPR	-120.0	505.0	-13.0	450.0	120.	117.	AG	11.0	45.0	
5. 23&WC EB QUEUE	-30.0	450.0	-120.0	505.0	105.	301.	AG	11.0	26.0	3
6. 23&WC EB DEP	13.0	450.0	220.0	565.0	237.	61.	AG	11.0	45.0	

JOB: GWUH PROP PM 23&WC RUN: GWHU PROP EVENING

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	50.0	-45.0	6.0
2. REC 2	50.0	45.0	6.0
3. REC 3	-50.0	-45.0	6.0
4. REC 4	-50.0	45.0	6.0
5. REC 5	-50.0	255.0	11.0
6. REC 6	50.0	255.0	11.0
7. REC 7	50.0	305.0	11.0
8. REC 8	-50.0	305.0	11.0
9. REC 9	50.0	415.0	17.0
10. REC 10	-50.0	415.0	17.0
11. REC 11	-70.0	425.0	17.0
12. REC 12	-200.0	501.0	17.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.5	.7	.5	.7	2.0	2.7	3.9	2.4	2.9	2.3
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.5	.7	.5	.7	2.0	2.7	3.9	2.4	2.9	2.3
WIND DIR	357	355	12	12	34	328	328	40	228	116
JULIAN	112	192	7	7	89	154	154	214	159	107
HOUR	6	7	12	12	22	1	1	3	20	3

	*	REC11	REC12
MAX+BKG	*	2.1	1.9
- BKG	*	.0	.0
MAX	*	2.1	1.9
WIND DIR	*	80	103
JULIAN	*	306	313
HOUR	*	24	13

JOB: GWUH PROP PM 23&WC RUN: GWHU PROP EVENING

THE HIGHEST CONCENTRATION OF 3.90 PPM OCCURRED AT RECEPTOR REC7 .

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor	Highest			Second highest		
Number	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm
1	.23	(273,23)	C 1	.20	(273, 8)	C 0
2	.30	(273,24)	C 1	.29	(41,11)	C 0
3	.31	(273, 6)	C 0	.21	(260, 4)	C 1
4	.40	(273, 6)	C 0	.34	(260, 5)	C 1
5	1.20	(260, 6)	C 1	1.16	(214, 5)	C 0
6	.98	(153, 7)	C 0	.93	(309,20)	C 2
7	1.61*	(178, 1)	C 0	1.51	(153, 8)	C 0
8	1.46	(214, 9)	C 1	1.45	(262, 2)	C 2
9	1.54	(35, 8)	C 1	1.53*	(181, 5)	C 2
10	1.40	(270, 7)	C 2	1.37	(175, 4)	C 2
11	1.22	(175, 4)	C 2	1.18	(262, 5)	C 2
12	.94	(103, 2)	C 0	.83	(308, 8)	C 1

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Calm	Second Highest Conc	Second Highest Ending Day Hr	Calm	Third Highest Conc	Third Highest Ending Day Hr	Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Calm	Fifth High Conc	Fifth High Ending Day Hr	Calm
1	.50	(112, 6)	C 0	.50	(192, 7)	C 0	.50	(194,10)	C 0	.50	(238,20)	C 0	.50	(279, 8)	C 0
2	.70	(192, 7)	C 0	.70	(238,20)	C 0	.70	(288,20)	C 0	.70	(309,18)	C 0	.60	(194,10)	C 0
3	.50	(7,12)	C 0	.50	(40,19)	C 0	.50	(40,20)	C 0	.50	(50, 8)	C 0	.50	(137,21)	C 0
4	.70	(7,12)	C 0	.70	(50, 8)	C 0	.70	(137,21)	C 0	.70	(273, 5)	C 0	.70	(285, 3)	C 0
5	2.00	(89,22)	C 0	2.00	(110,20)	C 0	2.00	(138, 3)	C 0	2.00	(180, 4)	C 0	2.00	(209, 5)	C 0

JOB: GWUH PROP PM 23&WC RUN: GWHU PROP EVENING

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr	Highest Ending			Second Highest Ending			Third Highest Ending			Fourth Highest Ending			Fifth Highest Ending		
No.	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm
6	2.70	(154, 1)	C 0	2.00	(7,20)	C 0	2.00	(174, 5)	C 0	2.00	(177,23)	C 0	2.00	(211,24)	C 0
7	3.90*	(154, 1)	C 0	2.70*	(174, 5)	C 0	2.70	(177,23)	C 0	2.60	(42,24)	C 0	2.60	(163,24)	C 0
8	2.40	(214, 3)	C 0	2.40	(289, 6)	C 0	2.30	(48,19)	C 0	2.30	(83, 3)	C 0	2.30	(137,23)	C 0
9	2.90	(159,20)	C 0	2.00	(35, 8)	C 0	2.00	(54, 8)	C 0	2.00	(76, 7)	C 0	2.00	(128, 6)	C 0
10	2.30	(107, 3)	C 0	2.30	(154, 2)	C 0	2.30	(158,22)	C 0	2.20	(313,13)	C 0	2.20	(160,22)	C 0
11	2.10	(306,24)	C 0	2.10	(107, 3)	C 0	2.00	(154, 2)	C 0	2.00	(160,22)	C 0	2.00	(288, 9)	C 0
12	1.90	(313,13)	C 0	1.80	(154, 2)	C 0	1.70	(107, 3)	C 0	1.70	(160,22)	C 0	1.40	(102,23)	C 0

JOB: GWUH PROP PM 23&WC

RUN: GWHU PROP EVENING

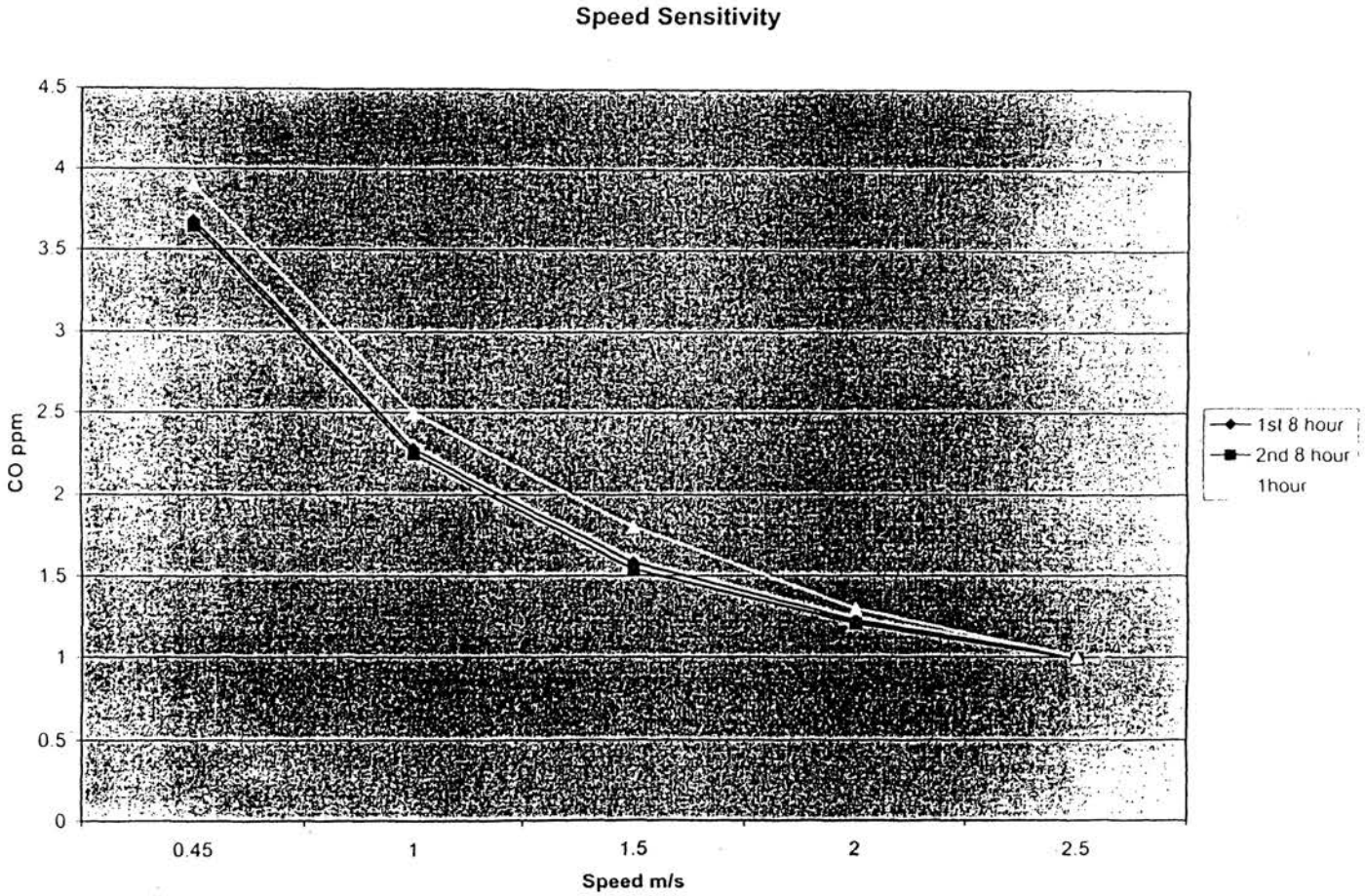
CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	188	(7,13)(11, 5)(11,13)(21,24)(23,19)(29, 5)(31, 3)(31, 6)(34,24)(35, 6) (40,18)(42,23)(43, 5)(46, 2)(46,14)(48, 5)(54, 2)(54, 6)(56, 2)(59, 8) (62, 6)(62,23)(71,19)(72,23)(73, 4)(73, 8)(76, 8)(83, 4)(84,23)(85, 1) (105, 7)(110,18)(111,20)(125, 5)(126, 2)(126, 4)(132,21)(136, 8)(137, 4)(137, 6) (143,21)(144, 1)(154, 4)(154, 6)(156, 6)(158, 1)(160,24)(164, 1)(169, 6)(174, 4) (174,20)(175,21)(179, 6)(180, 5)(180,24)(182, 3)(182, 6)(184, 1)(188, 7)(188,24) (190, 2)(190,24)(191, 4)(191, 6)(192, 1)(192, 6)(193, 3)(193,23)(195,24)(198, 8) (199,20)(201,21)(201,24)(202, 2)(202, 5)(202,23)(203, 6)(204, 2)(204, 5)(204, 7) (205,22)(205,24)(206, 2)(206, 4)(210, 5)(212, 2)(214, 9)(214,21)(214,23)(215, 2) (215, 4)(215,21)(228,23)(230, 3)(233, 4)(238, 5)(239,22)(240, 2)(242, 3)(242,21) (242,23)(243, 1)(243,23)(244, 2)(244, 5)(246,22)(246,24)(247, 7)(248, 5)(250,22) (253,21)(255, 1)(257,24)(258, 3)(259,24)(260,21)(261, 1)(261, 6)(261, 8)(261,21) (261,24)(262, 3)(262, 7)(263, 1)(263, 3)(266, 4)(267, 3)(270, 1)(270, 5)(271,21) (273,14)(273,20)(276, 8)(277, 1)(280,23)(285, 8)(285,19)(288,19)(288,22)(289, 7) (289,18)(289,20)(289,24)(291,18)(292, 4)(292, 8)(294, 6)(297,23)(299, 4)(300, 6) (300, 8)(301, 4)(301, 7)(301,19)(302, 5)(306, 7)(306,15)(306,20)(307, 2)(308, 7) (308,22)(309,17)(311,19)(311,21)(312,18)(312,21)(314, 5)(315, 1)(319,11)(319,21) (320,20)(324,15)(329, 4)(329, 6)(336, 8)(338,21)(338,23)(339,11)(344,19)(344,21) (346, 8)(347, 5)(347,16)(356,19)(356,21)(357, 1)(357,23)(363,19)
2	55	(23,24)(24, 3)(29, 8)(36,18)(43, 3)(46, 6)(48,22)(49, 3)(102, 3)(111,24) (125,23)(136, 6)(139, 2)(139, 6)(156, 3)(157,21)(174,23)(193, 1)(196, 4)(198, 6) (198,23)(200,23)(203, 2)(203,22)(205, 1)(205, 5)(205, 8)(208,23)(222,24)(242, 6) (247, 3)(249,24)(250, 3)(250, 6)(250, 9)(261, 4)(262,20)(262,23)(272, 1)(279, 5) (281, 7)(286, 7)(288, 8)(289, 1)(299, 2)(301,23)(302, 2)(302,23)(306,23)(328,22) (329, 9)(344,24)(355,24)(356, 8)(361,10)
3	27	(18,23)(45,24)(49, 7)(53, 7)(102, 7)(107, 2)(144, 6)(160, 7)(180,22)(183, 2) (193, 7)(194, 3)(199,24)(202,21)(209, 4)(218, 3)(228, 7)(230, 7)(243, 6)(280, 5) (281, 3)(289, 5)(301, 2)(312, 7)(320, 4)(329,19)(356, 4)
4	12	(87,24)(170, 2)(198, 3)(209,24)(233, 1)(248, 1)(254,23)(269,23)(280, 1)(300,22) (312, 3)(320, 9)
5	12	(142,24)(143, 6)(147, 2)(169, 4)(178, 7)(188, 4)(189, 6)(228, 3)(254, 6)(286,23) (295, 1)(307, 8)

```
     6              6        ( 59, 6)(199, 6)(238, 2,  , 3)(288, 5)(298. 6)
     7              3        (229, 7)(286, 3)(310, 2)
     9              2        (220, 6)(252, 5)
    10              3        (253, 7)(305, 9)(309, 9)

Program terminated normally
```

SPEED SENSITIVITY


Speed Sensitivity
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
CO ppm
0.45
1
1.5
2
2.5
Speed m/s
1st 8 hour
2nd 8 hour
1hour

Speed Sensitivity

speed	1st 8 hour	2nd 8 hour	1hour
0.45	3.68	3.65	3.9
1	2.28	2.25	2.5
1.5	1.58	1.54	1.8
2	1.23	1.21	1.3
2.5	1	0.99	1

1.614035 speed adjustment factor

1.210526 *speed and traffic* adjustment

```
'GWUH EXIST AM 23&WC'   60.   175.   0.   0.   12  0.3048   1
1 1 01 1 2 01
99999   99   99999   99
0  0  'U'
'REC 1'       50.     -45.   6.0
'REC 2'       50.      45.   6.0
'REC 3'      -50.     -45.   6.0
'REC 4'      -50.      45.   6.0
'REC 5'      -50.     255.   11.0
'REC 6'       50.     255.   11.0
'REC 7'       50.     305.   11.0
'REC 8'      -50.     305.   11.0
'REC 9'       50.     415.   17.0
'REC 10'     -50.     415.   17.0
'REC 11'     -70.     425.   17.0
'REC 12'    -200.     501.   17.0
1  'C'
1 1 1 1 1 1 1
'GWHU EXIST MORNING'   6
1   1
'23&WC NB APPR   '   'AG'      13.    280.    13.     450.  11.   45.
2   2
'23&WC NB QUEUE  '   'AG'      13.    425.    13.     305.  11.   26.0   2
3   1
'23&WC SB DEP    '   'AG'     -13.    450.   -13.     280.  11.   45.
4   1
'23&WC EB APPR   '   'AG'    -120.    505.   -13.     450.  11.   45.
5   2
'23&WC EB QUEUE  '   'AG'     -30.    450.  -120.     505.  11.   50.0    3
6   1
'23&WC EB DEP    '   'AG'      13.    450.   220.     565.  11.   45.
01   0.0
1      812.   34.28
2      60     45    1.0     812   255.65    0  0  0
3      737.   34.28
4     2314.   26.10
5      60     15     1.0   2314   255.65    0  0  0
6     2392.   26.10
```

```
99999 99 99999 99
99010101    90.0       1.0  296.1 4 1000.0 1000.0
99010102    90.0       1.0  295.1 4 1000.0 1000.0
99010103    90.0       1.0  294.1 4 1000.0 1000.0
99010104    90.0       1.0  293.1 4 1000.0 1000.0
99010105    90.0       1.0  293.1 4 1000.0 1000.0
99010106    90.0       1.0  293.1 4 1000.0 1000.0
99010107   110.0       1.0  294.1 4 1000.0 1000.0
99010108    70.0       1.0  295.1 4 1000.0 1000.0
99010109    90.0       1.0  296.1 4 1000.0 1000.0
99010110    90.0       1.0  297.1 4 1000.0 1000.0
99010111    90.0       1.0  298.1 4 1000.0 1000.0
99010112    90.0       1.0  299.1 4 1000.0 1000.0
99010113    90.0       1.0  300.1 4 1000.0 1000.0
99010114    90.0       1.0  301.1 4 1000.0 1000.0
99010115   110.0       1.0  302.1 4 1000.0 1000.0
99010116    70.0       1.0  303.1 4 1000.0 1000.0
99010117    90.0       1.0  302.1 4 1000.0 1000.0
99010118    90.0       1.0  300.1 4 1000.0 1000.0
99010119    90.0       1.0  299.1 4 1000.0 1000.0
99010120    90.0       1.0  298.1 4 1000.0 1000.0
99010121    90.0       1.0  298.1 4 1000.0 1000.0
99010122    90.0       1.0  298.1 4 1000.0 1000.0
99010123    70.0       1.0  298.1 4 1000.0 1000.0
99010124   110.0       1.0  297.1 4 1000.0 1000.0
99010201    90.0       1.0  296.1 4 1000.0 1000.0
99010202    90.0       1.0  295.1 4 1000.0 1000.0
99010203    90.0       1.0  294.1 4 1000.0 1000.0
99010204    90.0       1.0  293.1 4 1000.0 1000.0
99010205    90.0       1.0  293.1 4 1000.0 1000.0
99010206    90.0       1.0  293.1 4 1000.0 1000.0
99010207   110.0       1.0  294.1 4 1000.0 1000.0
99010208    70.0       1.0  295.1 4 1000.0 1000.0
99010209    90.0       1.0  296.1 4 1000.0 1000.0
99010210    90.0       1.0  297.1 4 1000.0 1000.0
99010211    90.0       1.0  298.1 4 1000.0 1000.0
99010212    90.0       1.0  299.1 4 1000.0 1000.0
99010213    90.0       1.0  300.1 4 1000.0 1000.0
99010214    90.0       1.0  301.1 4 1000.0 1000.0
99010215   110.0       1.0  302.1 4 1000.0 1000.0
99010216    70.0       1.0  303.1 4 1000.0 1000.0
99010217    90.0       1.0  302.1 4 1000.0 1000.0
99010218    90.0       1.0  300.1 4 1000.0 1000.0
99010219    90.0       1.0  299.1 4 1000.0 1000.0
99010220    90.0       1.0  298.1 4 1000.0 1000.0
99010221    90.0       1.0  297.1 4 1000.0 1000.0
99010222    90.0       1.0  296.1 4 1000.0 1000.0
99010223    70.0       1.0  295.1 4 1000.0 1000.0
99010224   110.0       1.0  294.1 4 1000.0 1000.0
```

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 1/ 2/ 1 Julian: 2

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99999 99
Upper Air Sta. Id & Yr = 99999 99

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. 23&WC NB APPR	13.0	280.0	13.0	450.0	170.	360.	AG	11.0	45.0	
2. 23&WC NB QUEUE	13.0	425.0	13.0	305.0	120.	180.	AG	11.0	26.0	2
3. 23&WC SB DEP	-13.0	450.0	-13.0	280.0	170.	180.	AG	11.0	45.0	
4. 23&WC EB APPR	-120.0	505.0	-13.0	450.0	120.	117.	AG	11.0	45.0	
5. 23&WC EB QUEUE	-30.0	450.0	-120.0	505.0	105.	301.	AG	11.0	50.0	3
6. 23&WC EB DEP	13.0	450.0	220.0	565.0	237.	61.	AG	11.0	45.0	

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	50.0	-45.0	6.0
2. REC 2	50.0	45.0	6.0
3. REC 3	-50.0	-45.0	6.0
4. REC 4	-50.0	45.0	6.0
5. REC 5	-50.0	255.0	11.0
6. REC 6	50.0	255.0	11.0
7. REC 7	50.0	305.0	11.0
8. REC 8	-50.0	305.0	11.0
9. REC 9	50.0	415.0	17.0
10. REC 10	-50.0	415.0	17.0
11. REC 11	-70.0	425.0	17.0
12. REC 12	-200.0	501.0	17.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.0	.0	.0	.0	.0	.3	2.5	.0	2.5	.0
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.0	.0	.0	.0	.0	.3	2.5	.0	2.5	.0
WIND DIR	0	0	0	0	0	290	290	0	290	0
JULIAN	0	0	0	0	0	1	1	0	1	0
HOUR	0	0	0	0	0	7	7	0	7	0

	*	REC11	REC12
MAX+BKG	*	.0	.0
- BKG	*	.0	.0
MAX	*	.0	.0
WIND DIR	*	0	0
JULIAN	*	0	0
HOUR	*	0	0

THE HIGHEST CONCENTRATION OF 2.50 PPM OCCURRED AT RECEPTOR REC7 .

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.08	(2, 7)	C 0	.04	(1, 8)	C 0
7	1.98	(2, 7)	C 0	1.76	(1, 8)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	2.28*	(2, 7)	C 0	2.25*	(1, 8)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Ending Day Hr	Calm	Second Highest Conc	Ending Day Hr	Calm	Third Highest Conc	Ending Day Hr	Calm	Fourth Highest Conc	Ending Day Hr	Calm	Fifth Highest Conc	Ending Day Hr	Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.30	(1, 7)	C 0	.30	(1,15)	C 0	.30	(1,24)	C 0	.30	(2, 7)	C 0	.30	(2,15)	C 0
7	2.50*	(1, 7)	C 0	2.50*	(1,15)	C 0	2.50	(1,24)	C 0	2.50	(2, 7)	C 0	2.50	(2,15)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	2.50	(1, 7)	C 0	2.50	(1,15)	C 0	2.50	(1,24)	C 0	2.50	(2, 7)	C 0	2.50	(2,15)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences

No calm wind hours were encountered during this processing period.

Program terminated normally

```
'REC 2'       50.      45.    6.0
'REC 3'      -50.     -45.    6.0
'REC 4'      -50.      45.    6.0
'REC 5'      -50.     255.    11.0
'REC 6'       50.     255.    11.0
'REC 7'       50.     305.    11.0
'REC 8'      -50.     305.    11.0
'REC 9'       50.     415.    17.0
'REC 10'     -50.     415.    17.0
'REC 11'     -70.     425.    17.0
'REC 12'    -200.     501.    17.0
1  'C'
1 1 1 1 1 1 1
'GWHU EXIST MORNING'   6
1   1
'23&WC NB APPR    '   'AG'      13.    280.    13.     450.  11.   45.
2   2
'23&WC NB QUEUE   '   'AG'      13.    425.    13.     305.  11.   26.0   2
3   1
'23&WC SB DEP     '   'AG'     -13.    450.   -13.     280.  11.   45.
4   1
'23&WC EB APPR    '   'AG'    -120.    505.   -13.     450.  11.   45.
5   2
'23&WC EB QUEUE   '   'AG'     -30.    450.  -120.     505.  11.   50.0    3
6   1
'23&WC EB DEP     '   'AG'      13.    450.   220.     565.  11.   45.
01   0.0
1       812.   34.28
2       60     45    1.0     812   255.65    0  0  0
3       737.   34.28
4      2314.   26.10
5       60     15     1.0   2314   255.65    0  0  0
6      2392.   26.10
```

99010104	90.0	1.5	293.1	4	1000.0	1000.0
99010105	90.0	1.5	293.1	4	1000.0	1000.0
99010106	90.0	1.5	293.1	4	1000.0	1000.0
99010107	110.0	1.5	294.1	4	1000.0	1000.0
99010108	70.0	1.5	295.1	4	1000.0	1000.0
99010109	90.0	1.5	296.1	4	1000.0	1000.0
99010110	90.0	1.5	297.1	4	1000.0	1000.0
99010111	90.0	1.5	298.1	4	1000.0	1000.0
99010112	90.0	1.5	299.1	4	1000.0	1000.0
99010113	90.0	1.5	300.1	4	1000.0	1000.0
99010114	90.0	1.5	301.1	4	1000.0	1000.0
99010115	110.0	1.5	302.1	4	1000.0	1000.0
99010116	70.0	1.5	303.1	4	1000.0	1000.0
99010117	90.0	1.5	302.1	4	1000.0	1000.0
99010118	90.0	1.5	300.1	4	1000.0	1000.0
99010119	90.0	1.5	299.1	4	1000.0	1000.0
99010120	90.0	1.5	298.1	4	1000.0	1000.0
99010121	90.0	1.5	298.1	4	1000.0	1000.0
99010122	90.0	1.5	298.1	4	1000.0	1000.0
99010123	70.0	1.5	298.1	4	1000.0	1000.0
99010124	110.0	1.5	297.1	4	1000.0	1000.0
99010201	90.0	1.5	296.1	4	1000.0	1000.0
99010202	90.0	1.5	295.1	4	1000.0	1000.0
99010203	90.0	1.5	294.1	4	1000.0	1000.0
99010204	90.0	1.5	293.1	4	1000.0	1000.0
99010205	90.0	1.5	293.1	4	1000.0	1000.0
99010206	90.0	1.5	293.1	4	1000.0	1000.0
99010207	110.0	1.5	294.1	4	1000.0	1000.0
99010208	70.0	1.5	295.1	4	1000.0	1000.0
99010209	90.0	1.5	296.1	4	1000.0	1000.0
99010210	90.0	1.5	297.1	4	1000.0	1000.0
99010211	90.0	1.5	298.1	4	1000.0	1000.0
99010212	90.0	1.5	299.1	4	1000.0	1000.0
99010213	90.0	1.5	300.1	4	1000.0	1000.0
99010214	90.0	1.5	301.1	4	1000.0	1000.0
99010215	110.0	1.5	302.1	4	1000.0	1000.0
99010216	70.0	1.5	303.1	4	1000.0	1000.0
99010217	90.0	1.5	302.1	4	1000.0	1000.0
99010218	90.0	1.5	300.1	4	1000.0	1000.0
99010219	90.0	1.5	299.1	4	1000.0	1000.0
99010220	90.0	1.5	298.1	4	1000.0	1000.0
99010221	90.0	1.5	297.1	4	1000.0	1000.0
99010222	90.0	1.5	296.1	4	1000.0	1000.0
99010223	70.0	1.5	295.1	4	1000.0	1000.0
99010224	110.0	1.5	294.1	4	1000.0	1000.0

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 1/ 2/ 1 Julian: 2

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99915 99
Upper Air Sta. Id & Yr = 99915 99

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. 23&WC NB APPR	13.0	280.0	13.0	450.0	170.	360.	AG	11.0	45.0	
2. 23&WC NB QUEUE	13.0	425.0	13.0	305.0	120.	180.	AG	11.0	26.0	2
3. 23&WC SB DEP	-13.0	450.0	-13.0	280.0	170.	180.	AG	11.0	45.0	
4. 23&WC EB APPR	-120.0	505.0	-13.0	450.0	120.	117.	AG	11.0	45.0	
5. 23&WC EB QUEUE	-30.0	450.0	-120.0	505.0	105.	301.	AG	11.0	50.0	3
6. 23&WC EB DEP	13.0	450.0	220.0	565.0	237.	61.	AG	11.0	45.0	

Receptor Data

RECEPTOR	X	Y	Z
1. REC 1	50.0	-45.0	6.0
2. REC 2	50.0	45.0	6.0
3. REC 3	-50.0	-45.0	6.0
4. REC 4	-50.0	45.0	6.0
5. REC 5	-50.0	255.0	11.0
6. REC 6	50.0	255.0	11.0
7. REC 7	50.0	305.0	11.0
8. REC 8	-50.0	305.0	11.0
9. REC 9	50.0	415.0	17.0
10. REC 10	-50.0	415.0	17.0
11. REC 11	-70.0	425.0	17.0
12. REC 12	-200.0	501.0	17.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.0	.0	.0	.0	.0	.2	1.8	.0	1.8	.0
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.0	.0	.0	.0	.0	.2	1.8	.0	1.8	.0
WIND DIR	0	0	0	0	0	290	290	0	290	0
JULIAN	0	0	0	0	0	1	1	0	1	0
HOUR	0	0	0	0	0	7	7	0	7	0

	*	REC11	REC12
MAX+BKG	*	.0	.0
- BKG	*	.0	.0
MAX	*	.0	.0
WIND DIR	*	0	0
JULIAN	*	0	0
HOUR	*	0	0

THE HIGHEST CONCENTRATION OF 1.80 PPM OCCURRED AT RECEPTOR REC9 .

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Ending Day Hr	Calm	Second highest Conc	Ending Day Hr	Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.05	(2, 7)	C 0	.03	(1, 8)	C 0
7	1.35	(2, 7)	C 0	1.19	(1, 8)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	1.58*	(2, 7)	C 0	1.54*	(1, 8)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr	Highest				Second Highest				Third Highest				Fourth Highest				Fifth Highest			
No.	Conc	Ending Day	Hr	Calm	Conc	Ending Day	Hr	Calm	Conc	Ending Day	Hr	Calm	Conc	Ending Day	Hr	Calm	Conc	Ending Day	Hr	Calm
1	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0
2	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0
3	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0
4	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0
5	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0
6	.20	(1,	7)	C 0	.20	(1,15)		C 0	.20	(1,24)		C 0	.20	(2,	7)	C 0	.20	(2,15)		C 0
7	1.80	(1,	7)	C 0	1.80	(1,15)		C 0	1.80	(1,24)		C 0	1.80	(2,	7)	C 0	1.80	(2,15)		C 0
8	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0
9	1.80*	(1,	7)	C 0	1.80*	(1,15)		C 0	1.80	(1,24)		C 0	1.80	(2,	7)	C 0	1.80	(2,15)		C 0
10	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0
11	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0
12	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0	.00	(1,	0)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences

No calm wind hours were encountered during this processing period.

Program terminated normally

```
'GWUH EXIST AM 23&WC'   60.   175.   0.   0.   12  0.3048   1
1 1 01  1 2 01
99920   99   99920   99
0  0  'U'
'REC 1'       50.     -45.   6.0
'REC 2'       50.      45.   6.0
'REC 3'      -50.     -45.   6.0
'REC 4'      -50.      45.   6.0
'REC 5'      -50.     255.   11.0
'REC 6'       50.     255.   11.0
'REC 7'       50.     305.   11.0
'REC 8'      -50.     305.   11.0
'REC 9'       50.     415.   17.0
'REC 10'     -50.     415.   17.0
'REC 11'     -70.     425.   17.0
'REC 12'    -200.     501.   17.0
1  'C'
1 1 1 1 1 1 1
'GWHU EXIST MORNING'   6
1   1
'23&WC NB APPR   '   'AG'      13.    280.    13.     450.  11.   45.
2   2
'23&WC NB QUEUE  '   'AG'      13.    425.    13.     305.  11.   26.0   2
3   1
'23&WC SB DEP    '   'AG'     -13.    450.   -13.     280.  11.   45.
4   1
'23&WC EB APPR   '   'AG'    -120.    505.   -13.     450.  11.   45.
5   2
'23&WC EB QUEUE  '   'AG'     -30.    450.  -120.     505.  11.   50.0    3
6   1
'23&WC EB DEP    '   'AG'      13.    450.   220.     565.  11.   45.
01   0.0
1      812.   34.28
2      60     45    1.0     812   255.65    0  0  0
3      737.   34.28
4     2314.   26.10
5      60     15     1.0   2314   255.65    0  0  0
6     2392.   26.10
```

```
99920 99 99920 99
99010101    90.0       2.0  296.1 4 1000.0 1000.0
99010102    90.0       2.0  295.1 4 1000.0 1000.0
99010103    90.0       2.0  294.1 4 1000.0 1000.0
99010104    90.0       2.0  293.1 4 1000.0 1000.0
99010105    90.0       2.0  293.1 4 1000.0 1000.0
99010106    90.0       2.0  293.1 4 1000.0 1000.0
99010107   110.0       2.0  294.1 4 1000.0 1000.0
99010108    70.0       2.0  295.1 4 1000.0 1000.0
99010109    90.0       2.0  296.1 4 1000.0 1000.0
99010110    90.0       2.0  297.1 4 1000.0 1000.0
99010111    90.0       2.0  298.1 4 1000.0 1000.0
99010112    90.0       2.0  299.1 4 1000.0 1000.0
99010113    90.0       2.0  300.1 4 1000.0 1000.0
99010114    90.0       2.0  301.1 4 1000.0 1000.0
99010115   110.0       2.0  302.1 4 1000.0 1000.0
99010116    70.0       2.0  303.1 4 1000.0 1000.0
99010117    90.0       2.0  302.1 4 1000.0 1000.0
99010118    90.0       2.0  300.1 4 1000.0 1000.0
99010119    90.0       2.0  299.1 4 1000.0 1000.0
99010120    90.0       2.0  298.1 4 1000.0 1000.0
99010121    90.0       2.0  298.1 4 1000.0 1000.0
99010122    90.0       2.0  298.1 4 1000.0 1000.0
99010123    70.0       2.0  298.1 4 1000.0 1000.0
99010124   110.0       2.0  297.1 4 1000.0 1000.0
99010201    90.0       2.0  296.1 4 1000.0 1000.0
99010202    90.0       2.0  295.1 4 1000.0 1000.0
99010203    90.0       2.0  294.1 4 1000.0 1000.0
99010204    90.0       2.0  293.1 4 1000.0 1000.0
99010205    90.0       2.0  293.1 4 1000.0 1000.0
99010206    90.0       2.0  293.1 4 1000.0 1000.0
99010207   110.0       2.0  294.1 4 1000.0 1000.0
99010208    70.0       2.0  295.1 4 1000.0 1000.0
99010209    90.0       2.0  296.1 4 1000.0 1000.0
99010210    90.0       2.0  297.1 4 1000.0 1000.0
99010211    90.0       2.0  298.1 4 1000.0 1000.0
99010212    90.0       2.0  299.1 4 1000.0 1000.0
99010213    90.0       2.0  300.1 4 1000.0 1000.0
99010214    90.0       2.0  301.1 4 1000.0 1000.0
99010215   110.0       2.0  302.1 4 1000.0 1000.0
99010216    70.0       2.0  303.1 4 1000.0 1000.0
99010217    90.0       2.0  302.1 4 1000.0 1000.0
99010218    90.0       2.0  300.1 4 1000.0 1000.0
99010219    90.0       2.0  299.1 4 1000.0 1000.0
99010220    90.0       2.0  298.1 4 1000.0 1000.0
99010221    90.0       2.0  297.1 4 1000.0 1000.0
99010222    90.0       2.0  296.1 4 1000.0 1000.0
99010223    70.0       2.0  295.1 4 1000.0 1000.0
99010224   110.0       2.0  294.1 4 1000.0 1000.0
```

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 1/ 2/ 1 Julian: 2

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99920 99
Upper Air Sta. Id & Yr = 99920 99

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. 23&WC NB APPR	*	13.0	280.0	13.0	450.0	*	170.	360.	AG	11.0	45.0	
2. 23&WC NB QUEUE	*	13.0	425.0	13.0	305.0	*	120.	180.	AG	11.0	26.0	2
3. 23&WC SB DEP	*	-13.0	450.0	-13.0	280.0	*	170.	180.	AG	11.0	45.0	
4. 23&WC EB APPR	*	-120.0	505.0	-13.0	450.0	*	120.	117.	AG	11.0	45.0	
5. 23&WC EB QUEUE	*	-30.0	450.0	-120.0	505.0	*	105.	301.	AG	11.0	50.0	3
6. 23&WC EB DEP	*	13.0	450.0	220.0	565.0	*	237.	61.	AG	11.0	45.0	

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	50.0	-45.0	6.0
2. REC 2	50.0	45.0	6.0
3. REC 3	-50.0	-45.0	6.0
4. REC 4	-50.0	45.0	6.0
5. REC 5	-50.0	255.0	11.0
6. REC 6	50.0	255.0	11.0
7. REC 7	50.0	305.0	11.0
8. REC 8	-50.0	305.0	11.0
9. REC 9	50.0	415.0	17.0
10. REC 10	-50.0	415.0	17.0
11. REC 11	-70.0	425.0	17.0
12. REC 12	-200.0	501.0	17.0

Model Results

Remarks : In search of the wind direction corresponding
to the maximum concentration, only the first
direction, of the directions with the same maximum
concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED
(PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.0	.0	.0	.0	.0	.2	1.3	.0	1.3	.0
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.0	.0	.0	.0	.0	.2	1.3	.0	1.3	.0
WIND DIR	0	0	0	0	0	290	290	0	290	0
JULIAN	0	0	0	0	0	1	1	0	1	0
HOUR	0	0	0	0	0	7	7	0	7	0

	*	REC11	REC12
MAX+BKG	*	.0	.0
- BKG	*	.0	.0
MAX	*	.0	.0
WIND DIR	*	0	0
JULIAN	*	0	0
HOUR	*	0	0

THE HIGHEST CONCENTRATION OF 1.30 PPM OCCURRED AT RECEPTOR REC7 .

JOB: GWUH EXIST AM 23&WC

RUN: GWHU EXIST MORNING

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	..05	(2, 7)	C 0	.03	(1, 8)	C 0
7	1.00	(2, 7)	C 0	.89	(1, 8)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	1.23*	(2, 7)	C 0	1.21*	(1, 8)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Highest Ending Day Hr	Highest Calm	Second Highest Conc	Second Highest Ending Day Hr	Second Highest Calm	Third Highest Conc	Third Highest Ending Day Hr	Third Highest Calm	Fourth Highest Conc	Fourth Highest Ending Day Hr	Fourth Highest Calm	Fifth Highest Conc	Fifth Highest Ending Day Hr	Fifth Highest Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.20	(1, 7)	C 0	.20	(1,15)	C 0	.20	(1,24)	C 0	.20	(2, 7)	C 0	.20	(2,15)	C 0
7	1.30*	(1, 7)	C 0	1.30*	(1,15)	C 0	1.30	(1,24)	C 0	1.30	(2, 7)	C 0	1.30	(2,15)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	1.30	(1, 7)	C 0	1.30	(1,15)	C 0	1.30	(1,24)	C 0	1.30	(2, 7)	C 0	1.30	(2,15)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences

No calm wind hours were encountered during this processing period.

Program terminated normally

```
'GWUH EXIST AM 23&WC'    60.    175.    0.    0.    12   0.3048    1
1 1 01   1 2 01
99925    99    99925    99
0  0   'U'
'REC 1'        50.      -45.    6.0
'REC 2'        50.       45.    6.0
'REC 3'       -50.      -45.    6.0
'REC 4'       -50.       45.    6.0
'REC 5'       -50.      255.    11.0
'REC 6'        50.      255.    11.0
'REC 7'        50.      305.    11.0
'REC 8'       -50.      305.    11.0
'REC 9'        50.      415.    17.0
'REC 10'      -50.      415.    17.0
'REC 11'      -70.      425.    17.0
'REC 12'     -200.      501.    17.0
1   'C'
1 1 1 1 1 1 1
'GWHU EXIST MORNING'    6
1    1
'23&WC NB APPR    '    'AG'       13.     280.     13.      450.   11.    45.
2    2
'23&WC NB QUEUE   '    'AG'       13.     425.     13.      305.   11.    26.0    2
3    1
'23&WC SB DEP     '    'AG'      -13.     450.    -13.      280.   11.    45.
4    1
'23&WC EB APPR    '    'AG'     -120.     505.    -13.      450.   11.    45.
5    2
'23&WC EB QUEUE   '    'AG'      -30.     450.   -120.      505.   11.    50.0     3
6    1
'23&WC EB DEP     '    'AG'       13.     450.    220.      565.   11.    45.
01    0.0
1       812.    34.28
2       60      45     1.0      812    255.65     0   0   0
3       737.    34.28
4      2314.    26.10
5       60      15     1.0     2314    255.65     0   0   0
6      2392.    26.10
```

```
99925 99 99925 99
99010101    90.0      2.5  296.1 4 1000.0 1000.0
99010102    90.0      2.5  295.1 4 1000.0 1000.0
99010103    90.0      2.5  294.1 4 1000.0 1000.0
99010104    90.0      2.5  293.1 4 1000.0 1000.0
99010105    90.0      2.5  293.1 4 1000.0 1000.0
99010106    90.0      2.5  293.1 4 1000.0 1000.0
99010107   110.0      2.5  294.1 4 1000.0 1000.0
99010108    70.0      2.5  295.1 4 1000.0 1000.0
99010109    90.0      2.5  296.1 4 1000.0 1000.0
99010110    90.0      2.5  297.1 4 1000.0 1000.0
99010111    90.0      2.5  298.1 4 1000.0 1000.0
99010112    90.0      2.5  299.1 4 1000.0 1000.0
99010113    90.0      2.5  300.1 4 1000.0 1000.0
99010114    90.0      2.5  301.1 4 1000.0 1000.0
99010115   110.0      2.5  302.1 4 1000.0 1000.0
99010116    70.0      2.5  303.1 4 1000.0 1000.0
99010117    90.0      2.5  302.1 4 1000.0 1000.0
99010118    90.0      2.5  300.1 4 1000.0 1000.0
99010119    90.0      2.5  299.1 4 1000.0 1000.0
99010120    90.0      2.5  298.1 4 1000.0 1000.0
99010121    90.0      2.5  298.1 4 1000.0 1000.0
99010122    90.0      2.5  298.1 4 1000.0 1000.0
99010123    70.0      2.5  298.1 4 1000.0 1000.0
99010124   110.0      2.5  297.1 4 1000.0 1000.0
99010201    90.0      2.5  296.1 4 1000.0 1000.0
99010202    90.0      2.5  295.1 4 1000.0 1000.0
99010203    90.0      2.5  294.1 4 1000.0 1000.0
99010204    90.0      2.5  293.1 4 1000.0 1000.0
99010205    90.0      2.5  293.1 4 1000.0 1000.0
99010206    90.0      2.5  293.1 4 1000.0 1000.0
99010207   110.0      2.5  294.1 4 1000.0 1000.0
99010208    70.0      2.5  295.1 4 1000.0 1000.0
99010209    90.0      2.5  296.1 4 1000.0 1000.0
99010210    90.0      2.5  297.1 4 1000.0 1000.0
99010211    90.0      2.5  298.1 4 1000.0 1000.0
99010212    90.0      2.5  299.1 4 1000.0 1000.0
99010213    90.0      2.5  300.1 4 1000.0 1000.0
99010214    90.0      2.5  301.1 4 1000.0 1000.0
99010215   110.0      2.5  302.1 4 1000.0 1000.0
99010216    70.0      2.5  303.1 4 1000.0 1000.0
99010217    90.0      2.5  302.1 4 1000.0 1000.0
99010218    90.0      2.5  300.1 4 1000.0 1000.0
99010219    90.0      2.5  299.1 4 1000.0 1000.0
99010220    90.0      2.5  298.1 4 1000.0 1000.0
99010221    90.0      2.5  297.1 4 1000.0 1000.0
99010222    90.0      2.5  296.1 4 1000.0 1000.0
99010223    70.0      2.5  295.1 4 1000.0 1000.0
99010224   110.0      2.5  294.1 4 1000.0 1000.0
```

General Information

Run start date: 1/ 1/ 1 Julian: 1
end date: 1/ 2/ 1 Julian: 2

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to C for calculating CO averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 175. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 99925 99
Upper Air Sta. Id & Yr = 99925 99

Urban mixing heights were processed.

In 2001, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	LINK COORDINATES (FT) X1	Y1	X2	Y2	LENGTH (FT)	BRG (DEG)	TYPE	H (FT)	W (FT)	NLANES
1. 23&WC NB APPR	13.0	280.0	13.0	450.0	170.	360.	AG	11.0	45.0	
2. 23&WC NB QUEUE	13.0	425.0	13.0	305.0	120.	180.	AG	11.0	26.0	2
3. 23&WC SB DEP	-13.0	450.0	-13.0	280.0	170.	180.	AG	11.0	45.0	
4. 23&WC EB APPR	-120.0	505.0	-13.0	450.0	120.	117.	AG	11.0	45.0	
5. 23&WC EB QUEUE	-30.0	450.0	-120.0	505.0	105.	301.	AG	11.0	50.0	3
6. 23&WC EB DEP	13.0	450.0	220.0	565.0	237.	61.	AG	11.0	45.0	

Receptor Data

RECEPTOR	COORDINATES (FT) X	Y	Z
1. REC 1	50.0	-45.0	6.0
2. REC 2	50.0	45.0	6.0
3. REC 3	-50.0	-45.0	6.0
4. REC 4	-50.0	45.0	6.0
5. REC 5	-50.0	255.0	11.0
6. REC 6	50.0	255.0	11.0
7. REC 7	50.0	305.0	11.0
8. REC 8	-50.0	305.0	11.0
9. REC 9	50.0	415.0	17.0
10. REC 10	-50.0	415.0	17.0
11. REC 11	-70.0	425.0	17.0
12. REC 12	-200.0	501.0	17.0

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED (PPM)

	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10
MAX+BKG	.0	.0	.0	.0	.0	.2	1.1	.0	1.0	.0
- BKG	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MAX	.0	.0	.0	.0	.0	.2	1.1	.0	1.0	.0
WIND DIR	0	0	0	0	0	290	290	0	270	0
JULIAN	0	0	0	0	0	1	1	0	1	0
HOUR	0	0	0	0	0	7	7	0	1	0

	*	REC11	REC12
MAX+BKG	*	.0	.0
- BKG	*	.0	.0
MAX	*	.0	.0
WIND DIR	*	0	0
JULIAN	*	0	0
HOUR	*	0	0

THE HIGHEST CONCENTRATION OF 1.10 PPM OCCURRED AT RECEPTOR REC7 .

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.

3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AVERAGES.

MAXIMUM 8-HOUR RUNNING NONOVERLAPPING AVERAGE CONCENTRATIONS
IN PARTS PER MILLION (PPM),
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Highest Conc	Highest Ending Day Hr	Highest Calm	Second highest Conc	Second highest Ending Day Hr	Second highest Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.05	(2, 7)	C 0	.03	(1, 8)	C 0
7	..88	(2, 7)	C 0	.79	(1, 8)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	1.00*	(2, 7)	C 0	.99*	(1, 8)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0

FIVE HIGHEST 1-HOUR END-TO-END AVERAGE CONCENTRATIONS IN PARTS PER MILLION
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Conc	Ending Day Hr	Calm	Second Highest Conc	Ending Day Hr	Calm	Third Highest Conc	Ending Day Hr	Calm	Fourth Highest Conc	Ending Day Hr	Calm	Fifth Highest Conc	Ending Day Hr	Calm
1	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
2	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
3	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
4	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
5	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
6	.20	(1, 7)	C 0	.20	(1,15)	C 0	.20	(1,24)	C 0	.20	(2, 7)	C 0	.20	(2,15)	C 0
7	1.10*	(1, 7)	C 0	1.10*	(1,15)	C 0	1.10	(1,24)	C 0	1.10	(2, 7)	C 0	1.10	(2,15)	C 0
8	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
9	1.00	(1, 1)	C 0	1.00	(1, 2)	C 0	1.00	(1, 3)	C 0	1.00	(1, 4)	C 0	1.00	(1, 5)	C 0
10	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
11	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0
12	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0	.00	(1, 0)	C 0

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences

No calm wind hours were encountered during this processing period.

Program terminated normally

FIGURES

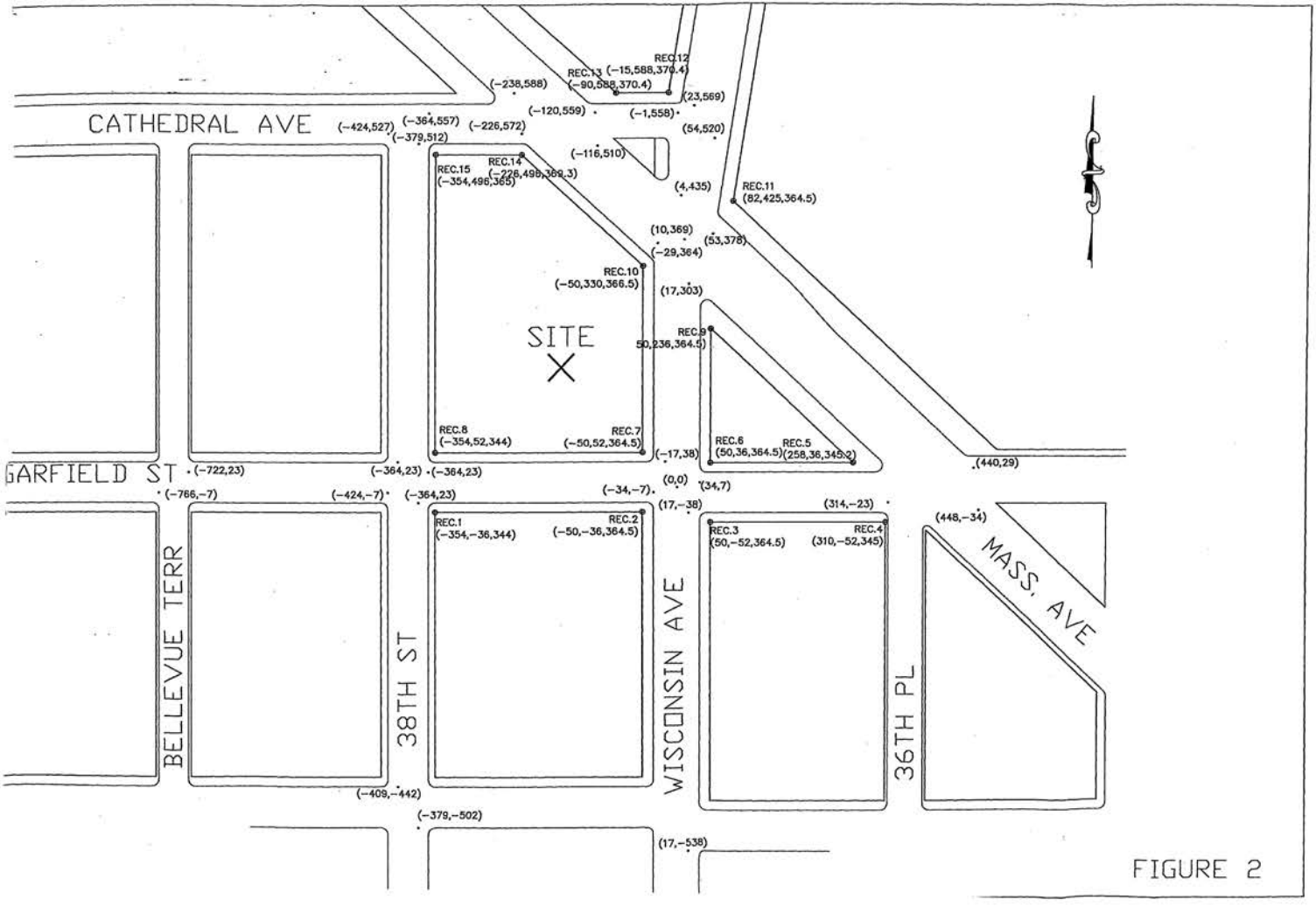

CATHEDRAL AVE
GARFIELD ST
BELLEVUE TERR
38TH ST
WISCONSIN AVE
36TH PL
MASS. AVE
SITE
REC.1 (-354,-36,344)
REC.2 (-50,-36,364.5)
REC.3 (50,-52,364.5)
REC.4 (310,-52,345)
REC.5 (258,36,345.2)
REC.6 (50,36,364.5)
REC.7 (-50,52,364.5)
REC.8 (-354,52,344)
REC.9 (50,236,364.5)
REC.10 (-50,330,366.5)
REC.11 (82,425,364.5)
REC.12
REC.13 (-15,588,370.4)
REC.14 (-226,496,369.3)
REC.15 (-354,496,365)
(-238,588)
(-90,588,370.4)
(-120,559)
(-1,558)
(23,569)
(54,520)
(-116,510)
(4,435)
(10,369)
(-29,364)
(53,378)
(17,303)
(-424,527)
(-364,557)
(-226,572)
(-379,512)
(-722,23)
(-364,23)
(-364,23)
(-17,38)
(0,0)
(34,7)
(440,29)
(-766,-7)
(-424,-7)
(-364,23)
(-34,-7)
(17,-38)
(314,-23)
(448,-34)
(-409,-442)
(-379,-502)
(17,-538)

FIGURE 2



– The Cooper Rules –
Safety Standards for Construction Vehicles

1. Before a trucking company starts a project, the excavation company must require documentation of:

   - All necessary licenses and permits
   - Any accidents or citations involving trucks or on-duty drivers for the prior year
   - The last required federal inspection
   - Adequate liability insurance
   - Current federal safety report
   - A pledge not to pay speeding tickets for drivers

2. If any of the above information changes or expires during the project, the trucking firm must update its records.

3. Before work starts, the excavation company shall certify that the trucking company has complied. The certification shall be placed on the truck's windshield, with a list of each driver authorized to drive the truck.

4. Before any driver starts work on a project, the excavation company must inspect the driver's commercial license to make sure it is current and appropriate for the job.

5. The excavation company must identify routes for drivers that minimize the use of streets through residential areas.

6. The excavation company must not require or recommend that drivers take any other routes.

7. If the excavation company uses how long a trip takes to measure a trucker's performance, the standard shall be the "reasonable" time it takes to drive the recommended route.

8. The excavation company must not load any truck with more weight than the maximum allowed in any jurisdiction in which the truck is driven.



Exhibit I

Garage Permit Plans

EXHIBIT 27

FROM

CASE 16586

IS AN OVERSIZED DOCUMENT

PLEASE SEE AT OFFICE